

THE ARCHITECT & BUILDING NEWS

4 FEBRUARY 1959

VOL. 215

NO. 5

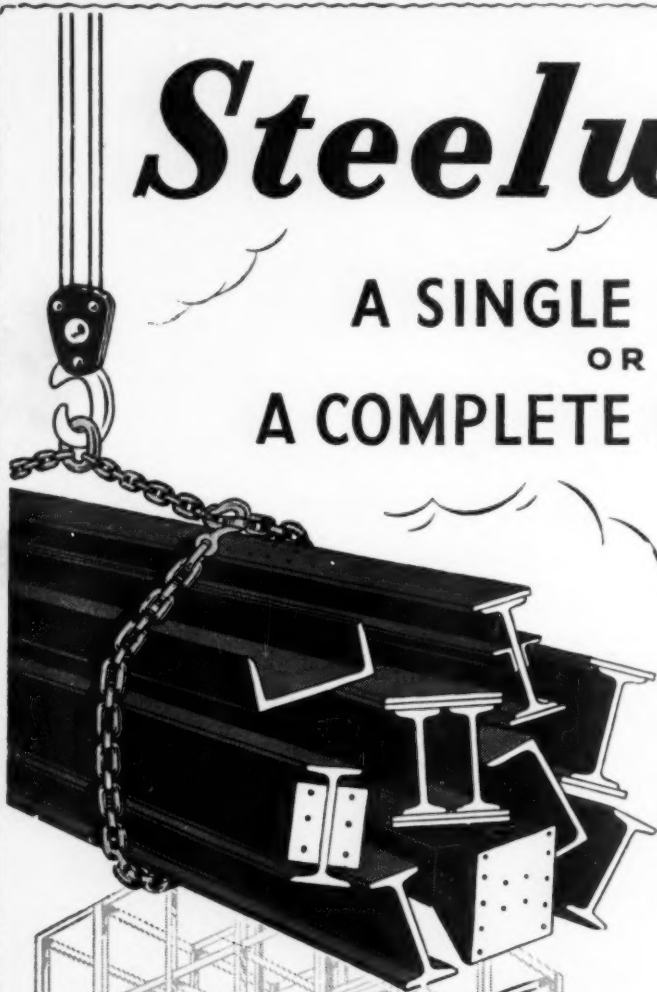
ONE SHILLING WEEKLY

- **THREE NEW GARAGES**
- **MINERS' WELFARE CENTRE**
- **CURRENT MARKET PRICES
AND MEASURED RATES**

PUBLISHED IN LONDON SINCE 1854

Steelwork

A SINGLE JOIST
OR
A COMPLETE BUILDING



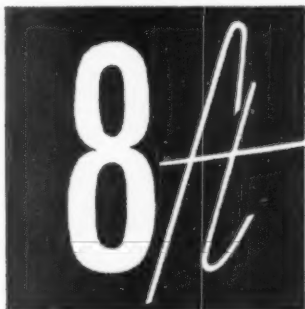
Try
D&R
STEELWORK
SERVICE

DUNLOP
AND
RANKEN
LTD
LEEDS

TELEPHONE 27301 (20 Lines)

TELEGRAMS "SECTIONS LEEDS"





by far the finest 8 ft. range in the country

The brilliantly successful G.E.C. 101 range of fluorescent fittings offers a wide choice of designs for every lighting requirement. The 8 ft. fittings are available in many variations. All use the G.E.C. Basic Channel with Osram Guaranteed Tubes with recessed double contact caps. Tube replacement is made easier as it can be carried out by one person from one ladder position. For full information send for publication F 4068.



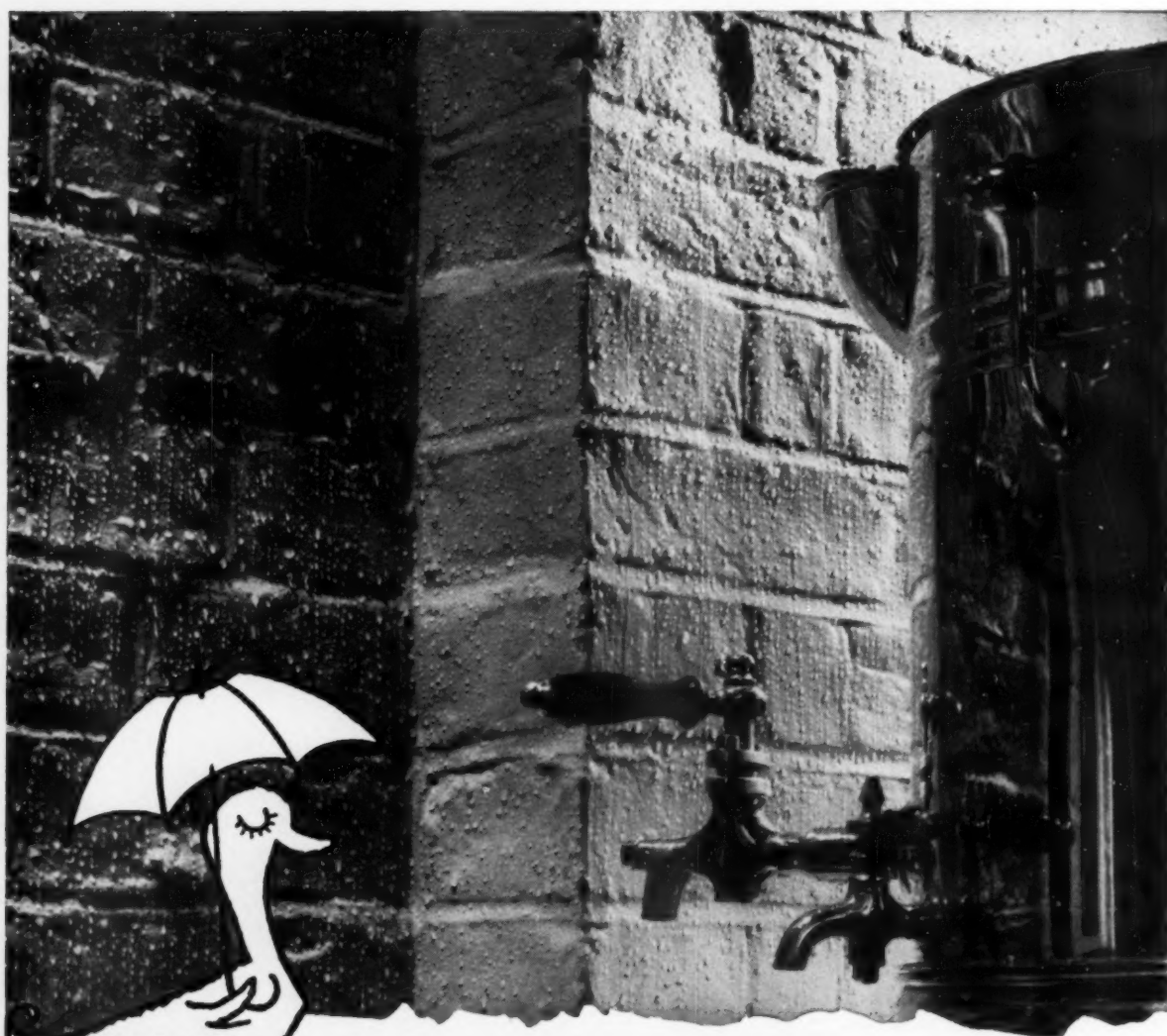
*stove enamelled, vitreous enamelled and
Perspex reflectors.*



The General Electric Company Limited,
Magnet House, Kingsway, London, W.C.2.

your problem **CONDENSATION ?**
 our answer **SECULATE!**

And not only our answer, but *the* answer! Seculate Anti-condensation Compound sets up a temperature barrier between the moist air and surface on which it is applied and it doesn't matter whether that surface is made of wood, brick, metal, stone, plaster, cement or concrete. Seculate also absorbs moisture even under conditions of steam impaction. Washable, mould and fire-resistant, it's something new which you should know about. A Seculate job is a PERMANENT job. Write to the address below: we'll be glad to send one of our experts along.



SECULATE ANTI-CONDENSATION COMPOUND

and "Welbrand" Industrial & Domestic Paints of all kinds.
BRITISH LEAD MILLS LIMITED,
 7-8-9, St. James's Street, London, S.W.1
 Telephone: Whitehall 5772
 Works: Welwyn Garden City, Herts.

A MEMBER OF THE FIRTH CLEVELAND GROUP





"Look at all that lovely Tempaflex heating!"



"I Say Sir . . .

. . . this Tempaflex heating is jolly good ! Every decent school has it now* because it sends out lovely warmth without making a draught. At our old school they had blower heaters that made a humming noise and old Baldy was always saying ' stop whispering at the back there.' Lots of the blokes got it in the neck when they were innocent all the time. I bet you could get a book about Tempaflex heaters if you wrote to the chaps who make them—up in London somewhere I expect, but I daresay they have places all over the country."

*Total now exceeds 800.

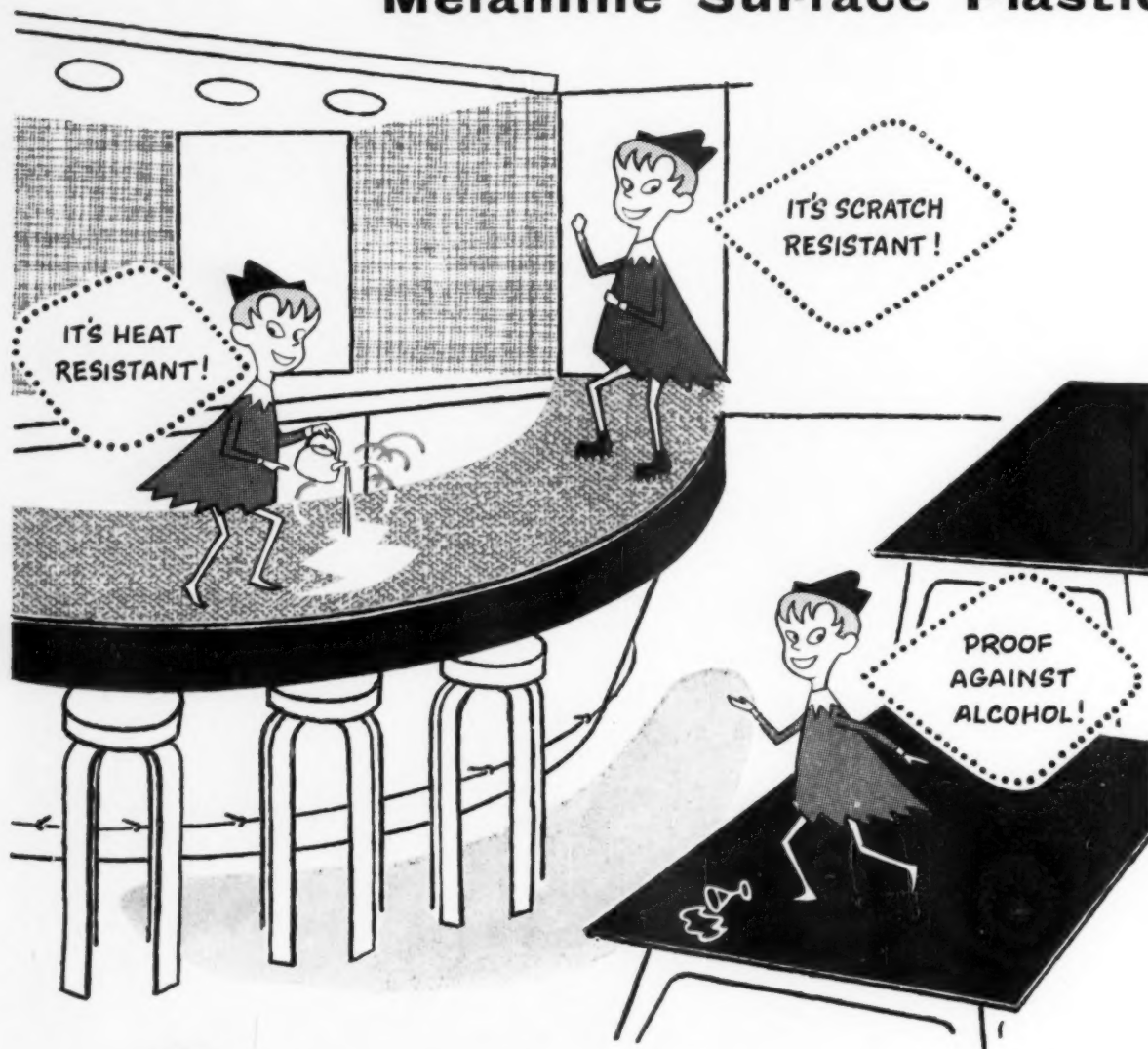
FLEXAIRE LIMITED

268/270 VAUXHALL BRIDGE ROAD, S.W.1. TELEPHONE: VICTORIA 2004/7/8

and at Birmingham, Glasgow, Manchester, Leeds, Newcastle, Bristol, Belfast, Dublin.

Plan with PANAX

Melamine Surface Plastic



PANAX, while being more heat resistant, more flexible than otherwise comparable laminates, *costs less!* Versatile PANAX, with endless surface possibilities in shops, ships, hotels, hospitals and homes, cafes, restaurants, canteens, clinics and cinemas, is extremely hard, micro-smooth, non-absorbent and of high dimensional stability. Satin and Matt finish in a wide range of contemporary colours and patterns, including realistic wood grains. Standard sheet size: 8' x 4' x $\frac{1}{16}$ ".

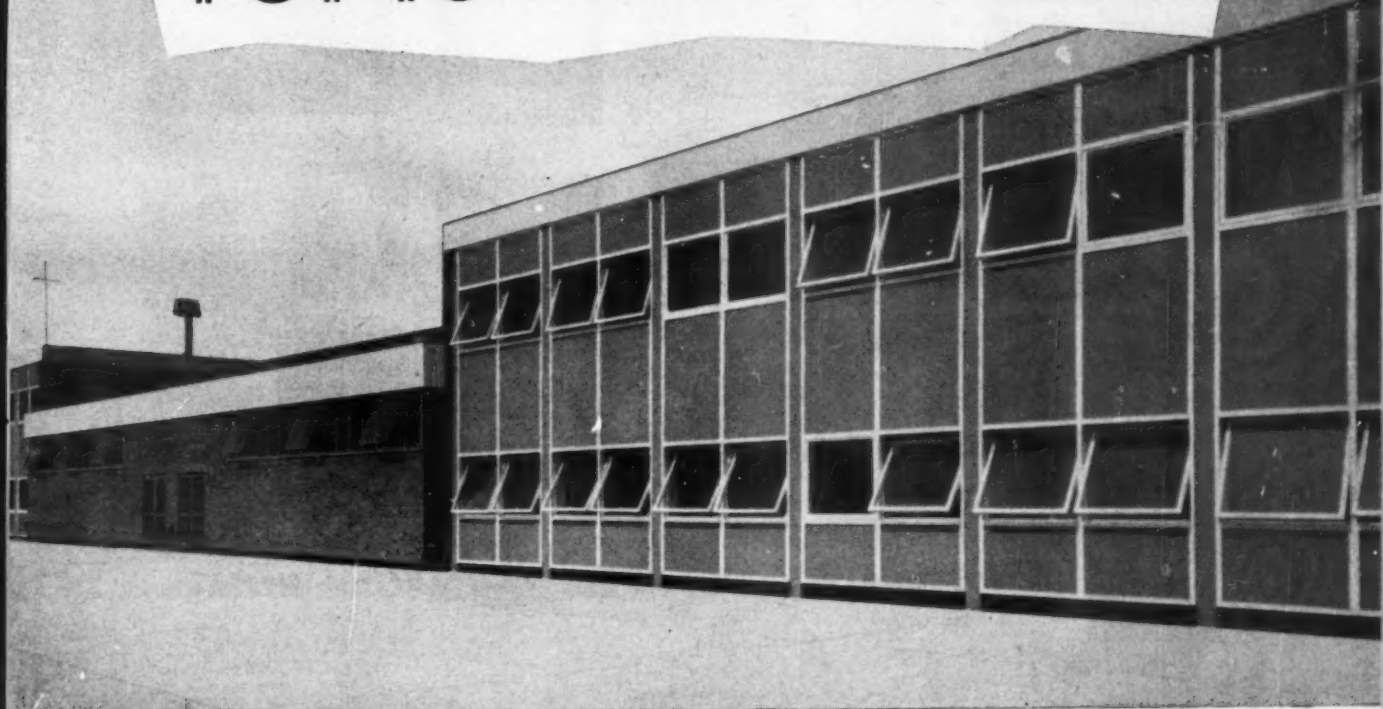
MELAMINE
SURFACE
PLASTIC

PANAX

Send for Samples and Literature to:-

NORTH BRITISH PLASTICS LIMITED, BLAYDON, CO. DURHAM. Phone: Blaydon 346/9. Grams: Panax, Blaydon-on-Tyne

TOMO double-glazing at London Airport



We think you'll agree that the appearance of these attractive offices at London Airport is enhanced by their TOMO double-glazed WINDOWS. But that's only a small part of the story. TOMO double-glazing also offers excellent thermal-efficiency values, remarkable sound-reduction properties, finely-controlled ventilation and total indoor window-cleaning.

On the subject of thermal efficiency, we should like to refer you to the report of a recent B.R.S. test quoted on the right. It speaks volumes. When you work within whistling distance of aircraft, sound reduction becomes a matter of vital importance. Here TOMO WINDOWS score heavily. The total reduction in sound level depends finally, of course, on the thickness of glass employed and the space between panes. Using 32-ounce glass spaced at 1½ in, TOMO double-glazing gives a reduction of approximately 40 decibels and will, we hope, save Shell-Mex and Esso personnel not a few headaches in the future.

One last point, TOMO double-glazed WINDOWS are suitable for inward or outward opening and can be top-hung, bottom-hung, side-hung or pivot-hung. Any further information you may require will be gladly supplied.

Administrative and operations offices for aviation fuel supplies at London Airport, half of which are occupied by Shell-Mex & B.P. Ltd. and the other by Esso Petroleum Co. Ltd. Architect: Frederick Gibberd, C.B.E., F.R.I.B.A., M.T.P.I.

★ ★

★ BUILDING RESEARCH STATION TESTS ★

★ When a standard-production TOMO WINDOW Wall-Unit (8ft. x 8ft.) was tested at the Building Research Station, Garston, the mean thermal transmittance of the complete unit was found to be 0.31 B.Th.U./sq. ft./h/°F. This is equal to the thermal transmittance of a traditional 11-in. cavity brick wall! This impressive result was further improved to 0.29 when the TOMO pleated blinds, fitted between the panes, were lowered. The U-value of the window-area only was found to be 0.38 which, with TOMO pleated blinds down, became 0.35. At 0.38, TOMO double-glazed WINDOWS are substantially (29%) better than the U-value of 0.47 quoted for conventional double windows in the I.H.V.E. Guide to Current Practice, 1955.

★ ★

**FOR UTMOST EFFICIENCY
IN THERMAL INSULATION
AND SOUND REDUCTION—**

SPECIFY

TOMO

DOUBLE GLAZED
WINDOWS

—purpose-made in finest timbers
to Architect's size, style and finish

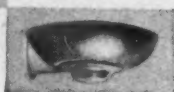
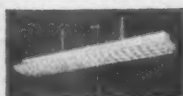
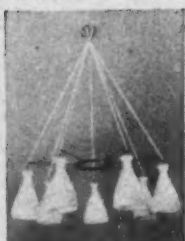
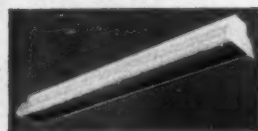
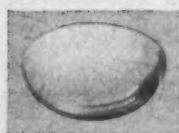
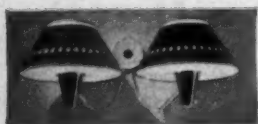
TO: TOMO TRADING CO. LTD., COWLEY PEACHEY,
UXBRIDGE, MIDDLESEX (Phone: West Drayton 3751)

Please send me your 24pp. TOMO double-glazed WINDOWS brochure.

Name

Address

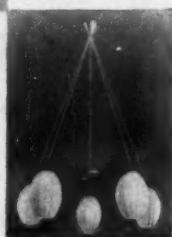
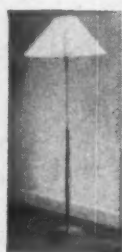
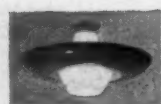
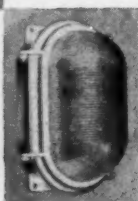
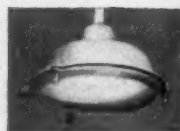
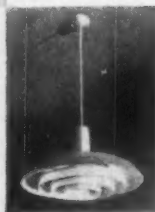
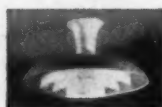
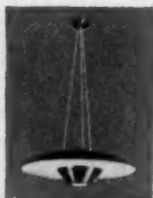
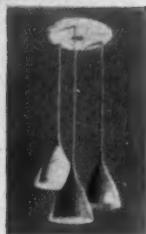
For the attention of..... ABN. 2



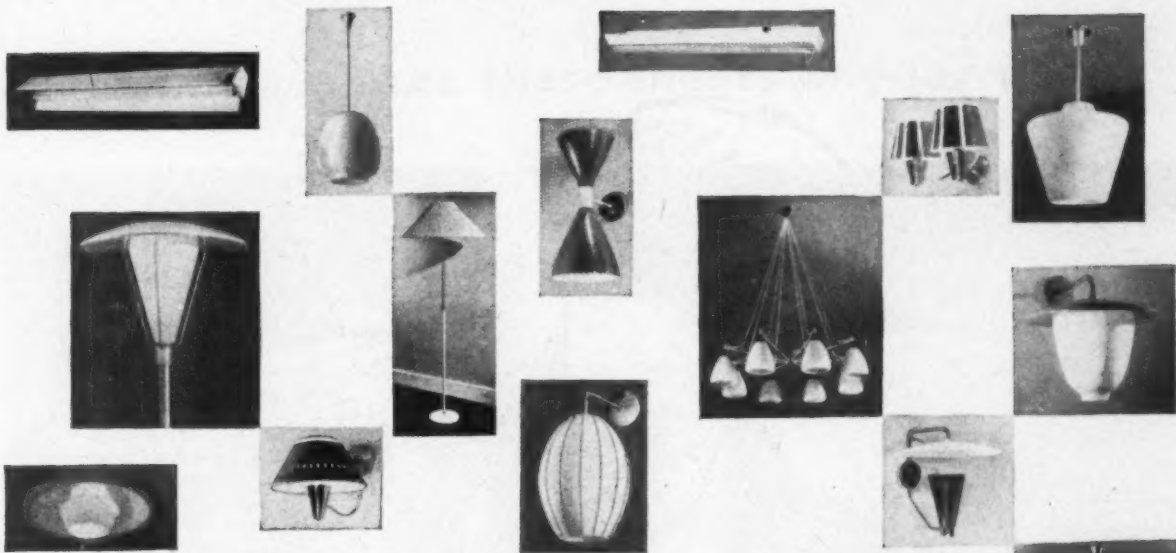
FALKS



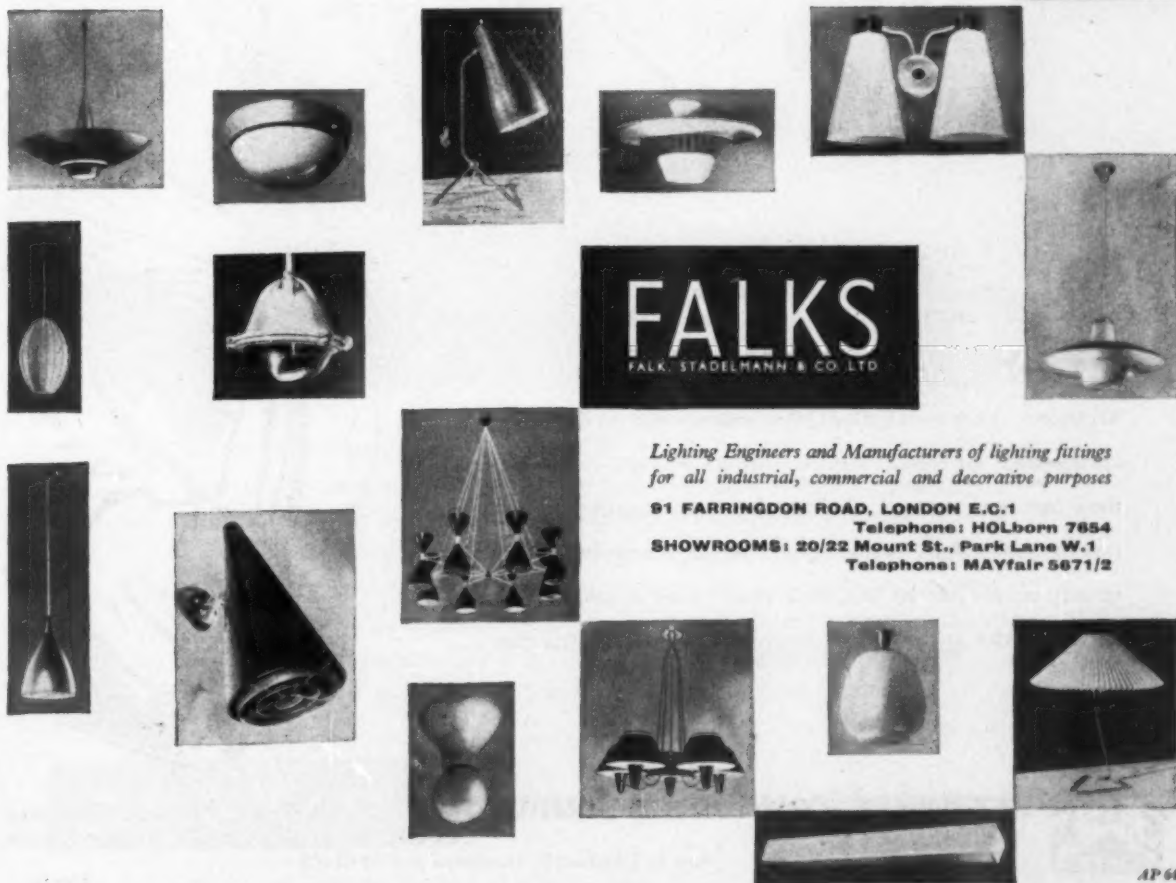
for every requirement in lighting fittings...



Ask for comprehensive catalogues



... industrial ... commercial ... domestic



CREDIBLE CONVERSATIONS NO. 5



Client: Our visit to see ECM lifts has satisfied me that they do a good job. What about their service facilities?

Architect: Very good indeed! My clients say that the ECM contract arrangement for regular service visits is very good value and that their men are prompt, efficient, clean and considerate. On the rare occasions when something goes wrong unexpectedly they are quickly on the job. In fact, their service after erection is as good as their service at the enquiry stage, and that I find first class . . .



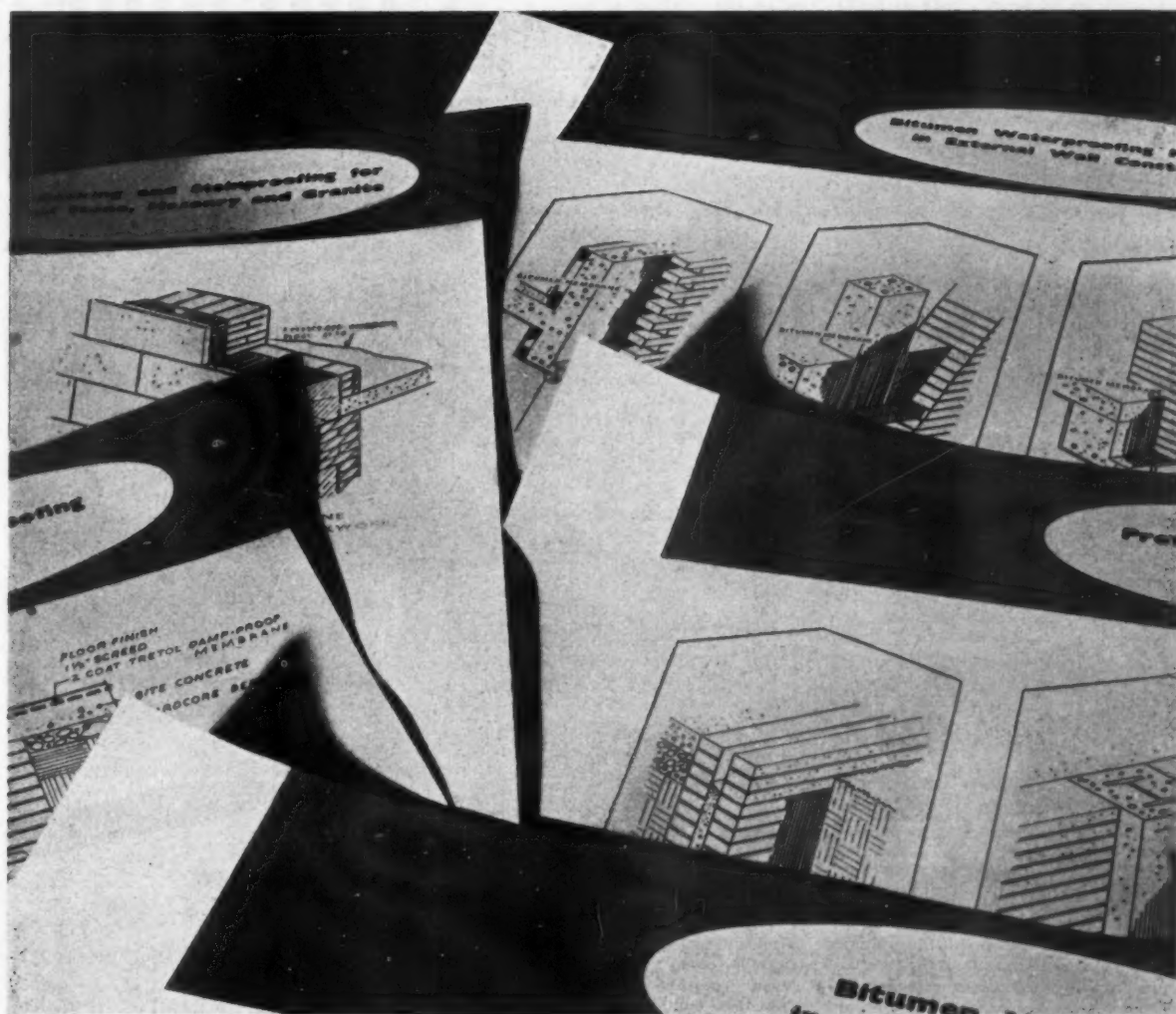
ETCHELLS, CONGDON & MUIR LTD., 25 Mill Street, Ancoats, Manchester
Tel.: ARDwick 4111

LONDON: 31 High Street, Merton, S.W.19

Also at Edinburgh, Liverpool and Sheffield

ECM 70

Are these sheets in your files?



These five specification sheets deal with various aspects of waterproofing structures. They cover the use of cold-applied bitumen solutions as both horizontal and vertical damp-proof membranes. One sheet is devoted entirely to the correct application of internal waterproof renderings as an alternative to tanking. The techniques illustrated have been utilised for a number of years in many important building projects throughout the country. If these sheets are not already in your files, we shall be glad to send you a set. Filing will be no problem, since they are designed to the British Standards size for technical literature.

TRETOL

Cold-Applied Bitumen Membrane Systems

TRETOL LTD. Makers of Building Products & Paints, THE HYDE, LONDON, N.W.9. Phone: Colindale 7223

BOVRIL LIMITED

save work and wear with **Duramel**



In the main kitchen of Bovril Ltd.'s new canteen, walls, partitions and doors bear witness to the extensive use of Duramel.

The new canteen at Bovril Ltd.'s Central London factory caters for 375. There's no time to waste. No time for unnecessary work. And these famous food manufacturers very properly insist on absolute hygiene.

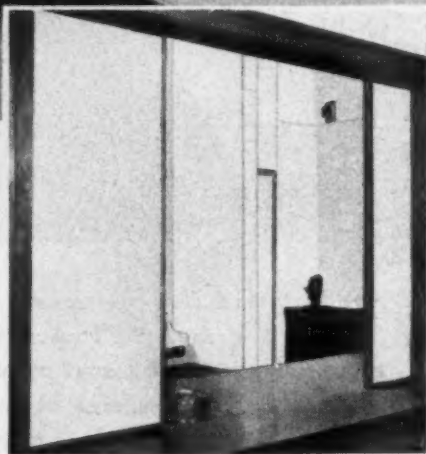
So they made extensive use of Duramel panels in servery, kitchen and on doors. Duramel resists steam, staining and the common chemical actions caused by foodstuffs. It is thoroughly hygienic and amazingly easy to keep clean. For any kitchen or canteen there is no better choice than Duramel.

Easy to clean : hard wearing

Duramel is not just another plastic. Its

melamine surface is permanently bonded at the factory to high-grade hardwood plywood. The technique used ensures that these two components are permanently bonded to become virtually one substance. The adhesion problems so often associated with ordinary plastics are thus completely overcome. And since Duramel is delivered ready for use, there are big savings in time, labour and expense.

Duramel is made in three different thicknesses and a wide range of colours and patterns. Your nearest distributor will be delighted to discuss its application to your own particular problems.



Brightness, absolute hygiene and ease of maintenance are among the many advantages of Duramel.

Duramel

THE PLASTIC-FACED PLYWOOD

The Melamine Plastic surface is bonded to first-grade hardwood plywood. It is waterproof, resistant to heat and mild acids, hygienic and wonderfully durable. Supplied in a range of colourful finishes, and plain white.

SIZES : 72" x 48", 84" x 48", 96" x 48", 36" x 24", 48" x 24".

For the name of your nearest distributor, write to the sole manufacturers :

F. HILLS & SONS LTD., NORTON ROAD, STOCKTON-ON-TEES. TEL: STOCKTON 67141

When windows must be wide and deep

THE need to introduce—whether for practical or for aesthetic reasons—windows that reach generously from floor to ceiling and wall to wall, might appear to present a problem: the problem of installing an efficient heating system economically without taking up valuable space or marring an otherwise uncluttered design.

There is one system that is designed to answer problems of this kind. It is a system of skirting heating developed by Crane Ltd. Crane Skirting Heating is so unobtrusive and its application so flexible that a great deal of freedom of arrangement is attained.



6-inch Type R (also available in 9-inch)

6"

1 1/4"

Floor line

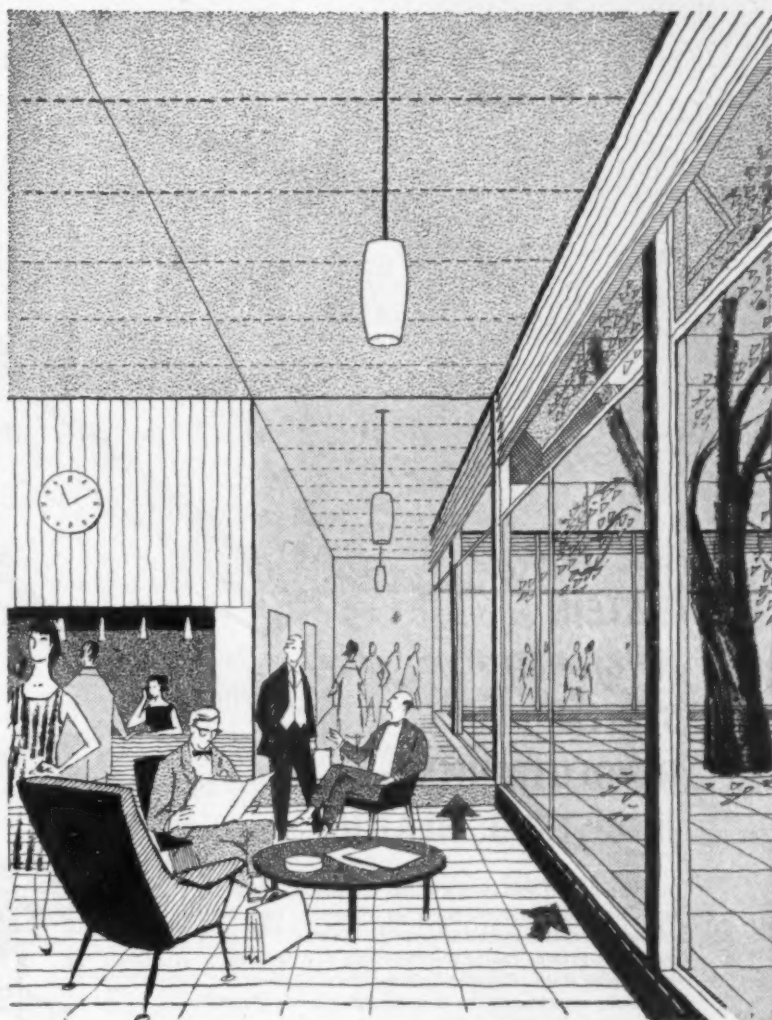
9-inch Type RC

9"

1 1/4"

Floor line

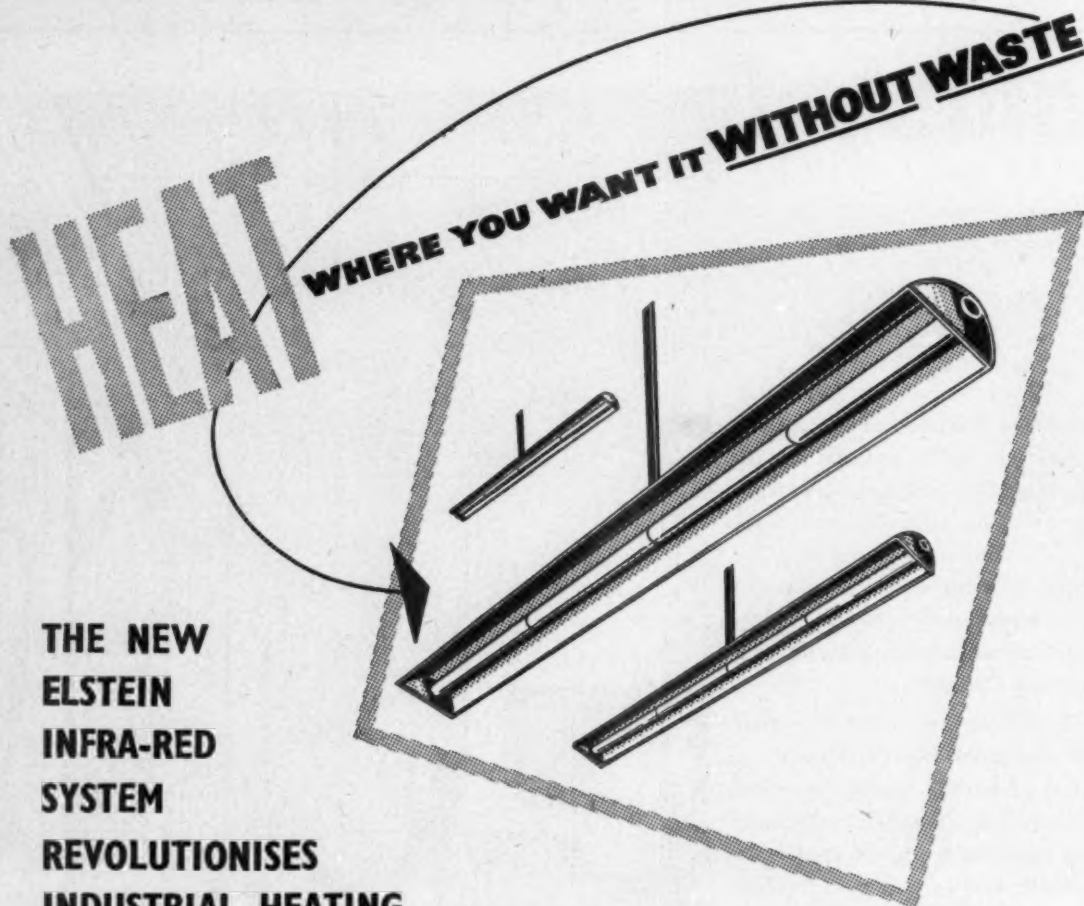
Manual (No. 423) on Crane Skirting Heating may be had on application to
 CRANE LTD., 15-16 RED LION COURT,
 FLEET STREET, LONDON, E.C.4
 London Showrooms:
 118 Wigmore Street, London, W. 1 and
 Great West Road, Brentford, Middlesex
 Branches:
 BIRMINGHAM · BRENTFORD · BRISTOL
 GLASGOW · LONDON · MANCHESTER
 Works: IPSWICH



This heating system takes the form of panels which are used in place of the normal skirting. They avoid local 'hot spots' and distribute the warmth evenly where it is needed, without taking valuable floor or wall space. There are two types. Type R, which is purely radiant and made in panels 6-inches and 9-inches high; and Type RC (radiant-convector) in the 9-inch size only (used in the example illustrated and indicated by arrows). All panels are in 2-ft. and 1-ft. lengths and are made of cast iron, which gives them great resistance to accidental damage. The operations of calculating heat requirements and designing the pipework are in principle no different from those for conventional radiator heating systems.

In all cases where the architect needs greater freedom of expression than conventional heating systems allow him, and at the same time has to pay due consideration to costs, the answer is, undoubtedly,

CRANE skirting heating

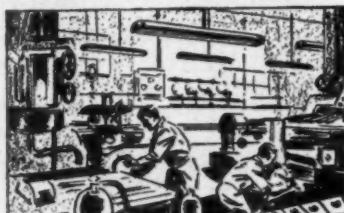


**THE NEW
ELSTEIN
INFRA-RED
SYSTEM
REVOLUTIONISES
INDUSTRIAL HEATING**

The Elstein Infra-Red system makes it possible to heat large, draughty industrial buildings efficiently. Heat can be localised so that it can be directed to the area in which men are working, making it unnecessary to heat large unoccupied areas. Moreover, since none of the heat is wastefully absorbed by the atmosphere, it is not affected by air currents or extractor fans.

Elstein sealed ceramic elements are proof against chemical fumes, gases and moisture and so have an exceptionally long life. Guaranteed 10,000 burning hours. The Elstein system is easy and economical to install and operation costs are remarkably low. The overhead installation keeps floor areas clear and thus reduces FIRE and accident hazards.

Our technologists will gladly submit plans and estimates without obligation, giving wattage of elements, position of units, method of wiring, etc., to meet individual requirements, assisting the architect in any way possible.



P & R ELECTRICAL (LONDON) LTD.

PEARL HOUSE • BERRYMEAD GARDENS • LONDON, W.3
Tel.: ACOrn 0174 (4 Lines)

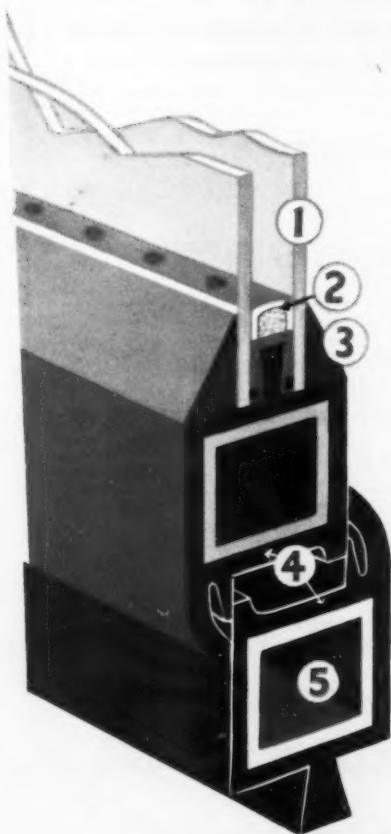


An outstanding installation of MIPOLAM WINDOWS

IDEAL MIPOLAM

(British Pat. 779278)

The first and only Plastic Window with hollow steel core for rigidity of construction. Available in a wide range of light-fast colours—eliminating the costliest of all items—maintenance. Not affected by atmospheric or corrosive attack. Effective draughtproofing by built-in sealing fins.



1. Double glazing, incorporating special glazing compounds with 'lifelong' life.
2. Aluminium grid filled with moisture absorbent compound.
3. Plastic glazing beads.
4. Ideal Mipolam plastic profiles with integral anti-draught fins.
5. Electrically welded hollow steel core sections.



IDEAL CASEMENTS (Reading) LTD.
 READING, ENGLAND. Tel.: 63211 (10 lines)

London Office:

4a King Street, St. James, London, S.W.1. Tel.: TRAFalgar 3321

Bristol Office:

3 King Square, Bristol, 2. Tel.: 27657

Key Plan

TO CUT YOUR BUILDING COSTS

Outlay on pipes is only a fraction of the cost of a drainage installation. In winter one out of every five days is lost when putting in conventional pipes. With Key pipes, however, the job still goes ahead cutting out unproductive labour, keeping down overheads and therefore cutting costs.

Now you can keep to schedule Delays are negligible with Key pipes, because they can be laid and tested in almost any weather, even despite bad ground. Pre-planning with Key can be done accurately, so that operations are smoothly sequenced and closely dovetailed. Snags are avoided and schedules kept or bettered.

Urgency on large projects When your normal drainlaying team is too small for a big rush job, work can still go ahead successfully, by making up with semi-skilled men.

COST OF A DRAINAGE INSTALLATION	
=	COST OF LABOUR
+	COST OF OVERHEADS
+	COST OF HOLD-UPS
+	COST OF SITE DISRUPTIONS
+	COST OF MATERIALS



BRITISH STANDARD KITE MARK

Key pipes comply with BS2760 1956. They are the first pitch fibre drainpipes to carry the British Standard 'Kite' Mark. This is a guarantee of quality and means that the Inspectors of the British Standards Institution have access to our pipe factory at any time.

**Use KEY
and cut
this total cost**

THE JOB GOES AHEAD

-against all odds

Rain? Driven taper joints give Key an immediate advantage over cement-jointed rigid pipes, which cannot normally be laid in waterlogged trenches. Runs can be prefabricated at ground level, lowered into prepared trenches and tested immediately.

Frost and Snow? Here again the taper joint means that work can still go ahead with Key. In fact frosty days are usually ideal for laying these modern drainpipes.

Bad Ground? Key pipes do not have to be laid in concrete, and haunched, on bad ground. Being resilient, they are better without concrete. The savings in skilled labour, time and cost are obviously considerable.

Site Congestion? Open trenches and pumping equipment normally cause hold-ups on site in wet weather. Immediate laying, testing and backfilling with Key pipes overcome this problem and keep traffic flowing.

Hot Sun and Drying Winds? Even good weather can be bad weather when pipes have to be mortar-jointed. This problem never arises with Key pipes.

More advantages of KEY PITCH FIBRE PIPES

No corrosion Remarkably resistant to acids and alkalis.

No root growth The close fitting tapered joints are machined to close limits.

No cracking through settlement Natural resilience means that pipes will not crack through normal earth movement.

Faster laying—fewer breakages 500 ft. an hour is a modest average with semi-skilled labour. A trench can be excavated, the drain laid, tested and backfilled in a day. Long lengths, toughness and resilience mean fewer breakages.

Widely approved Most public authorities and relevant professional bodies have given their approval.

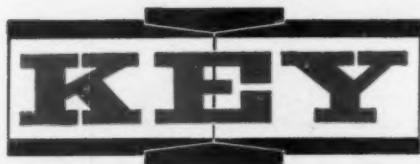
Lower handling costs Your unloading and handling costs will be cut by 75% because Key Pitch Fibre pipe is only one quarter the weight of salt glaze ware. It is available in the same diameters, in convenient 8 ft. lengths.

Ask for a demonstration

A practical demonstration of the advantages of Key pipes can be arranged at any time through your merchant, who will also supply any quantity you require within a matter of hours.



SPEED THE JOB—CUT THE COST WITH



PITCH FIBRE PIPES
THE WORLD'S FINEST AND MOST MODERN DRAINAGE SYSTEM

A PRODUCT OF **THE KEY ENGINEERING COMPANY LIMITED**

LARKFIELD, NR. MAIDSTONE, KENT. TELEPHONE: MAIDSTONE 7461 AND 7233

Reed

TGA KD17

NONPORITE

WATERPROOFERS & HARDENERS

**FOR CEMENT AND
CONCRETE MIXES**

**PREVENT MOISTURE
PENETRATION**

**INCREASES RATE of
SET - WORKABILITY -
STRENGTH - HARDNESS
and IMPERMEABILITY**

**IN
LIQUID - PASTE - POWDER
FORM**

ASK FOR BOOKLET

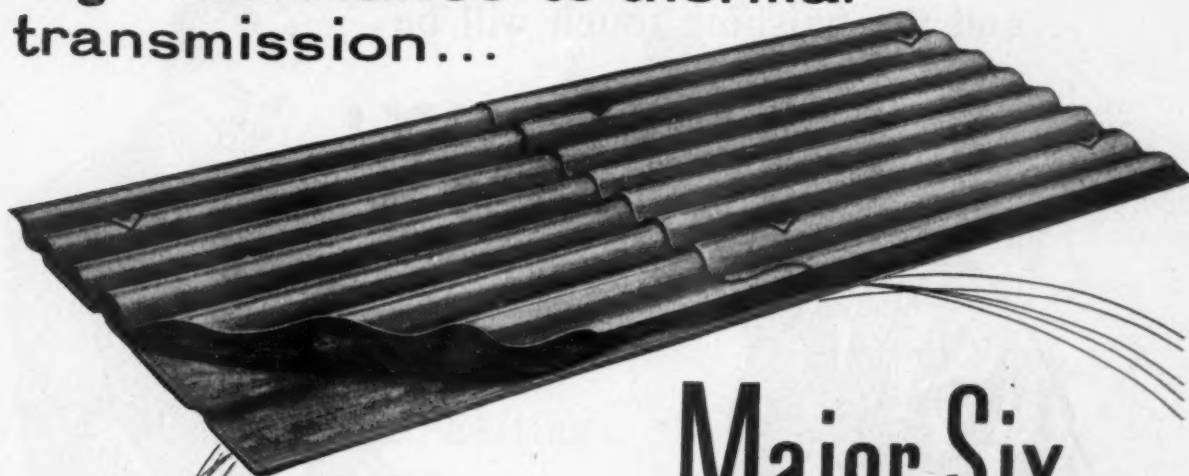
**HEAD OFFICE: EAGLE WORKS
WEDNESBURY - STAFFS**

Telephone: 1821 (nine lines)



LONDON OFFICE: ARTILLERY HOUSE, ARTILLERY ROW, S.W.1. Telephone: Abbey 7601 (five lines)

High resistance to thermal transmission...



Major Six

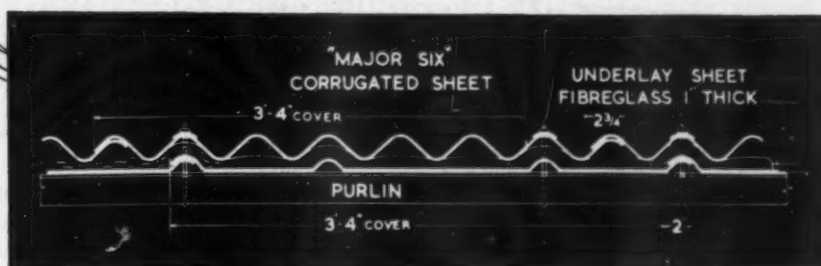
DOUBLE CLADDING INSULATION



Photograph above illustrates interior view of roof

"Major six" DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it!—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the "Major six" sheet in position.



Easily fixed with hook bolts and washers. "Major six" Double Cladding Insulation complies with the requirements of "Thermal Insulation Industrial Buildings" Bill.

ARTILLERY HOUSE • ARTILLERY ROW • LONDON SW1

Telephone: ABBey 3081.

Telegrams: "Atlstonco, Sowest"

Works at: MELDRETH, Nr. Royston, Herts.

Also at: GREENHITHE • STROOD • CAMBRIDGE • SHORNE • RYE (Sussex) • GT. YARMOUTH

...and the finishing touch will be

CERRUX!



Flats, offices, hospitals, houses or schools — Cerrux will be on the job — decorating, protecting, preserving.

Why Cerrux? Because it is dependable — Because its makers are never satisfied but always striving to make their finishes longer lasting, harder wearing and easier to apply.

If you want your honest moneysworth specify Cerrux!

CERRUX DECORATIVE PAINTS

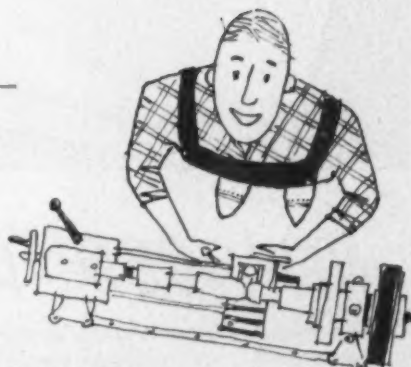
look smarter and last longer

CELLON LIMITED · KINGSTON-ON-THAMES · KINGSTON 1234 (9 lines)



G.E.C. overhead heating reduces heating overheads!

Heat spot on! G.E.C. narrow beam heaters
are an efficient source of heat
when warmth is wanted for a localised area—
operators in machine shops, loading bays,
garages... draughtsmen in site offices...
receptionists... wherever overall
heating is not practicable.



G.E.C. narrow beam heaters

save on running costs

by concentrating comfort
only where it is required.

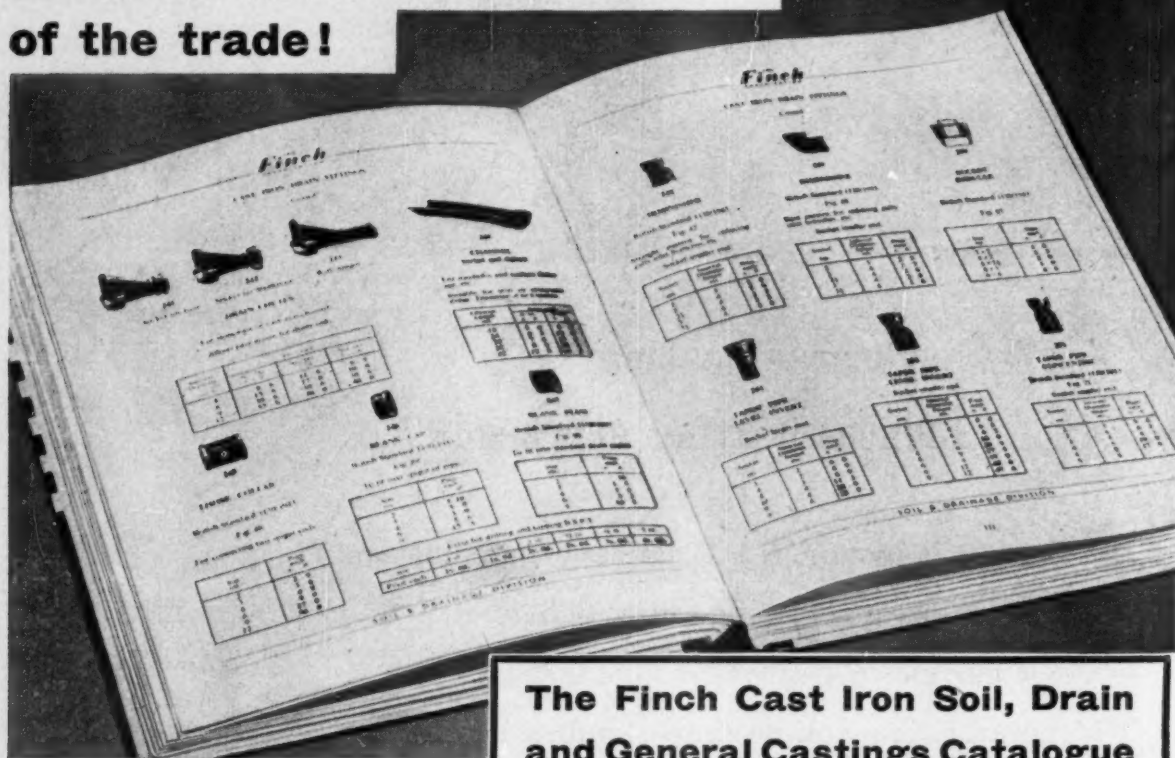


NARROW BEAM OVERHEAD RADIANT HEATERS

For full details and specifications, write for publication HO4503.

THE GENERAL ELECTRIC COMPANY LIMITED, MAGNET HOUSE, KINGSWAY, LONDON W.C.2

A *SENSATIONAL* technical catalogue issued in 1954 – now the text book of the trade!



The Finch Cast Iron Soil, Drain and General Castings Catalogue

NEW 1959 EDITION NOW AVAILABLE!

Original editions of this catalogue have already been accepted as the finest and most comprehensive text book of its kind ever issued to the trade. Now, Finch bring it right up-to-date with this new, more comprehensive than ever edition.

An essential reference book for Architects, Surveyors, Builders and Plumbers, it is divided into sections for quick reference and contains a mass of carefully tabulated technical information, as well as Tables of Measurements, latest fittings, Prices, etc.

Over 20,000 copies of the first edition are already in circulation. An overwhelming demand is anticipated for this new special Library Edition which can obviously only have a limited circulation to Architects, Surveyors, Building and Plumbing Contractors. Write today giving name of your Company.

COMPLETELY INDEXED AND PRICED

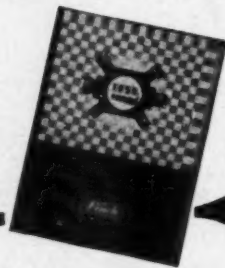
Including 24-page Price List for periodic revision.

the catalogue deals fully with the following subjects

**SOIL & WASTE PIPES & FITTINGS · RAINWATER PIPES & FITTINGS
WATERMAIN PIPES & FITTINGS · GUTTERS & RAINWATER HEADS
GENERAL CASTINGS · DRAIN PIPES & FITTINGS & ACCESSORIES
MANHOLE COVERS & FRAMES & ROAD
GULLY GRATINGS · SEWAGE DISPOSAL
EQUIPMENT · SLUICE VALVE & WATER
CONTROL APPARATUS · PLUMBERS' TOOLS
& DRAIN-TESTING APPARATUS**



**B. FINCH & CO. LTD · BELVEDERE WORKS · BARKINGSIDE · ESSEX
VALentine 8888 (30 lines)**



HANDBOOK EDITION

For general distribution there is this more compact edition of the catalogue designed for practical everyday use both in the office and on the site. Available on application.



Contemporary Acoustics
at the offices of the **UNITED KINGDOM
ATOMIC ENERGY AUTHORITY**

*to the designs of Trehearne & Norman Preston & Partners
in association with Leslie C. Norton, M.I.A.A.S.
have been installed by*

HERMESEAL

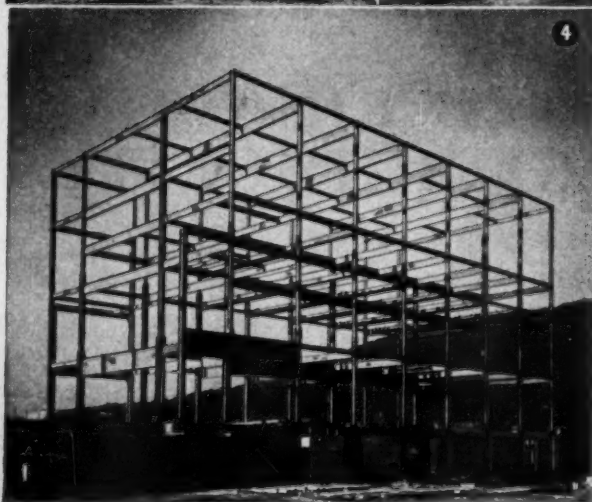
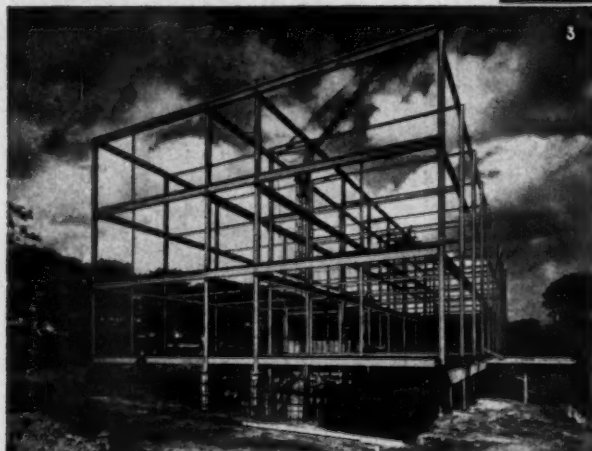
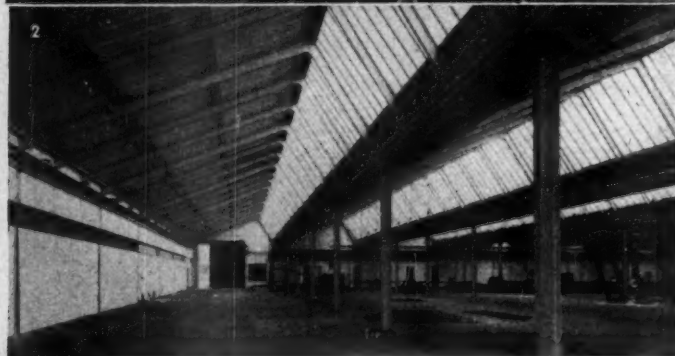
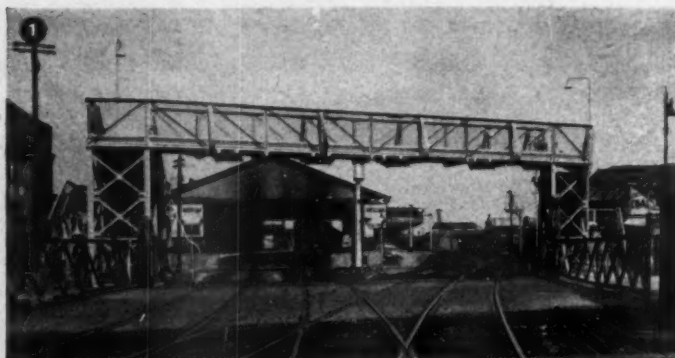
HERMESEAL ACOUSTICS LIMITED

HEAD OFFICE: 4 PARK LANE, LONDON, W.1. TELEPHONE, GROSVENOR 4324



- ① Footbridge for Level Crossing in Grimsby.
- ② Interior view of factory for Messrs. Brook Motors Ltd., Barnsley.
- ③ Sowerby Bridge Secondary School.
- ④ Control Room, Services and Welfare Block, Elland Power Station.

STRUCTURAL STEELWORK



BY
AUSTINS

JAMES AUSTIN AND SONS (DEWSBURY) LIMITED

Thornhill Iron & Steel Works, Dewsbury, Yorkshire
Telephone: Dewsbury 1750 (7 lines)
Telegrams: Austins, Dewsbury, Telex No. 55-129



LONDON OFFICE: Kirkman House,
54A Tottenham Court Road, London, W.1.
Telephone: Museum 1064

H.P.5917

The Perfect Combination

Combinol Gloss Paint

and

Valspar Eggshell Lustre

Combinol Gloss Paint

Tough — Brilliant — High Gloss Finish.
Excellent spreading power and opacity.
Resists all weather conditions.
Recommended for coastal and industrial areas.

Valspar Eggshell Lustre

Beautiful Eggshell Lustre Finish.
Easy to apply with wide brush, roller or spray.
Resists steam and condensation.
For all interior surfaces.

Also available in the British Standard Range (101 colours)

Manufactured by Goodlass Wall & Co Ltd



ONLY ONE COAT NEEDED

Fix it and forget it. That's the way with a Standard Maclean metal window. Just one decorative coat is required on site, saving time, materials and labour costs. Standard Maclean metal windows leave the factory thoroughly rustproofed by electro-galvanising and phosphating, followed by two coats of Sandy Beige Paint (specially developed by I.C.I.), each of which is stoved on separately. Don't forget, there's a guaranteed rustproof money saving Standard Maclean metal window in the full range of British Standards, both B.S.S. 990 and 'Z' types.

In any case, Standard Maclean make a good Metal Window

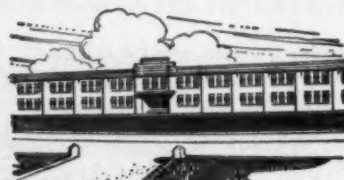
Standard Maclean also make

Curtain Walling, Purpose made Metal Windows, Architectural Metalwork, Balconies, Cat Ladders, Doors of all Types, Hand-railings, Open Flooring, Partitioning, Internal Fire Escape Stairs.

Standard Maclean Limited

STANDARD MACLEAN LIMITED CADZOW WORKS,
LOW WATERS ROAD, HAMILTON, Lanarkshire.
Hamilton 1410/4.

ABERDEEN: 13 Bridge Street, Tel.: Aberdeen 52331. **EDINBURGH:** 7 Albany Street, Tel.: Waverley 2190. **NEWCASTLE:** 14a Pilgrim Street, Tel.: Newcastle 27776. **LONDON, W.C.1:** Ascog House, 46 Theobald's Road, Tel.: Holborn 2462. **MANCHESTER:** 11 Norfolk Street, Tel.: Blackfriars 4171. **OLDBURY,** near Birmingham: 43 Birmingham Street, Tel.: Broadwell 2191. **WORTHING:** 30 Manor Road, Tel.: Worthing 1495.



A Standard Maclean Metal Window Installation.



Area of roof 14,000 square yards.

Huntley & Palmers Ltd., Huyton, Liverpool.
Architects: Messrs. Huckle & Durkin, London.
Contractors: R. Costain & Sons Ltd., Liverpool.

BITUMETAL
...the first name you think of
in Roofs!

To maintain their reputation as "the first name in biscuits" Huntley & Palmers demanded several essential features when roofing their new modern factory. The roof had to be insulated to effect fuel economy and maintain a constant temperature throughout the year—it had to be sealed against dust, soot and draughts and, of course, thoroughly weather-proofed. All these advantages plus freedom from maintenance can be found in Briggs "BITUMETAL", the modern aluminium roof, with the reflective ceiling.

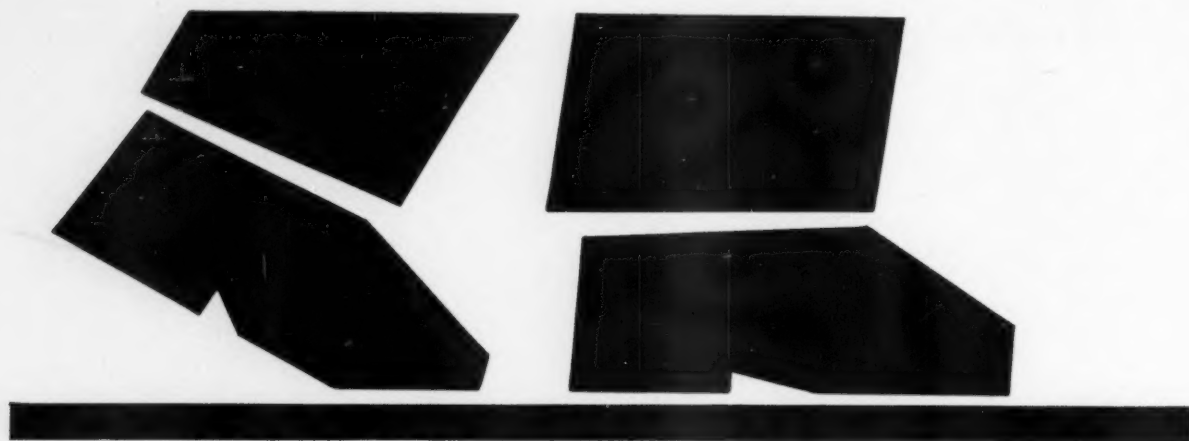
Full technical details can be obtained from any of the undernoted offices.

WILLIAM BRIGGS & SONS LTD.

LONDON, VAUXHALL GROVE S.W.8. • REGD. OFFICE, DUNDEE

OFFICES AND DEPOTS ALSO AT :

ABERDEEN	• BELFAST	• BRADFORD
BRISTOL	• CARDIFF	• DUBLIN
EDINBURGH	• GLASGOW	• LEICESTER
LIVERPOOL	•	• NORWICH



GLAMOROCK TAKES THE FLOOR

with a magic carpet of natural stone

GLAMOROCK LIMITED announce with pride two truly revolutionary surfacing materials of natural stone for floors and also walls. Their names? Glamorock Glaze and Glamorock Granite. Both are beautiful and very hardwearing. Both are *outstandingly economical*.

GLAMOROCK GLAZE

Glamorock Glaze possesses all the decorative and wear-resistant advantages of polished granite or Terrazzo, plus a far greater and altogether more attractive range of *natural* stone colours. It is simple to lay and highly economical. Depending on the size of the job, and the locality, its cost works out at between 25/- and 45/- per square yard. Glamorock Glaze is the ideal material for private dwellings, or wherever a modern, very beautiful floor or wall surface is required.

GLAMOROCK GRANITE

Glamorock Granite was evolved to give an exceptional degree of wear-resistance under the most severe conditions, while retaining the beauty, colour and design possibilities of Glamorock Glaze. Glamorock Granite makes a perfect surfacing for factories, schools, hospitals, public buildings and similar places. It is completely slip-proof and after a normal floor polish has been applied it can be thoroughly cleaned simply by water.

Neither Glamorock Glaze nor Glamorock Granite will fade, craze or crack, structural faults excluded. Both surfaces are unaffected by oil, acid and other normally harmful substances. They are easy to keep clean and are comfortable to stand or walk on, maintaining room temperature. And they are both available in a superb range of 22 fade-free colours of the natural rock, without any added pigments whatsoever. These standard colours can be mixed to give an infinite variety of attractive blends.

Both materials (which are supplied ready-mixed) can easily and very rapidly be applied "in situ" on practically any surface—timber, stone, cement, etc.—provided it is free of oil and grease. And they are ideal for prefabrication in tile or sheet form. In either case only a comparatively thin application (say 3/16") is needed.

Glamorock Glaze and Granite open a new world of design and economy possibilities. They are of the utmost importance to every Architect, Designer and Contractor.

Important Note to Flooring Contractors

In view of the revolutionary nature of these products and the impact they will have on the Flooring Industry, you are invited to make full use of the Demonstration Service offered by:—

GLAMOROCK LIMITED,
Monza Street, Wapping Wall, London, E.1. Royal 6785/6



GLAMOROCK

a magic carpet of natural stone

Glamorock Glaze used dramatically on a corridor floor and wall. The right hand wall is faced with standard Glamorock.

S.W.
FARMER
& SON LIMITED

EST. 1898

FABRICATORS IN STEEL

IRON STAIRCASES STEELWORK BALUSTRADING

S.W. FARMER & SON LTD, COURTHILL ROAD, LEWISHAM, LONDON, S.E. 13
PHONE: LEE GREEN 4334-9.

VULCANITE ROOFING

for every type of roof



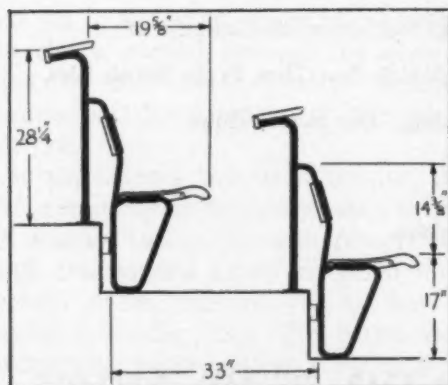
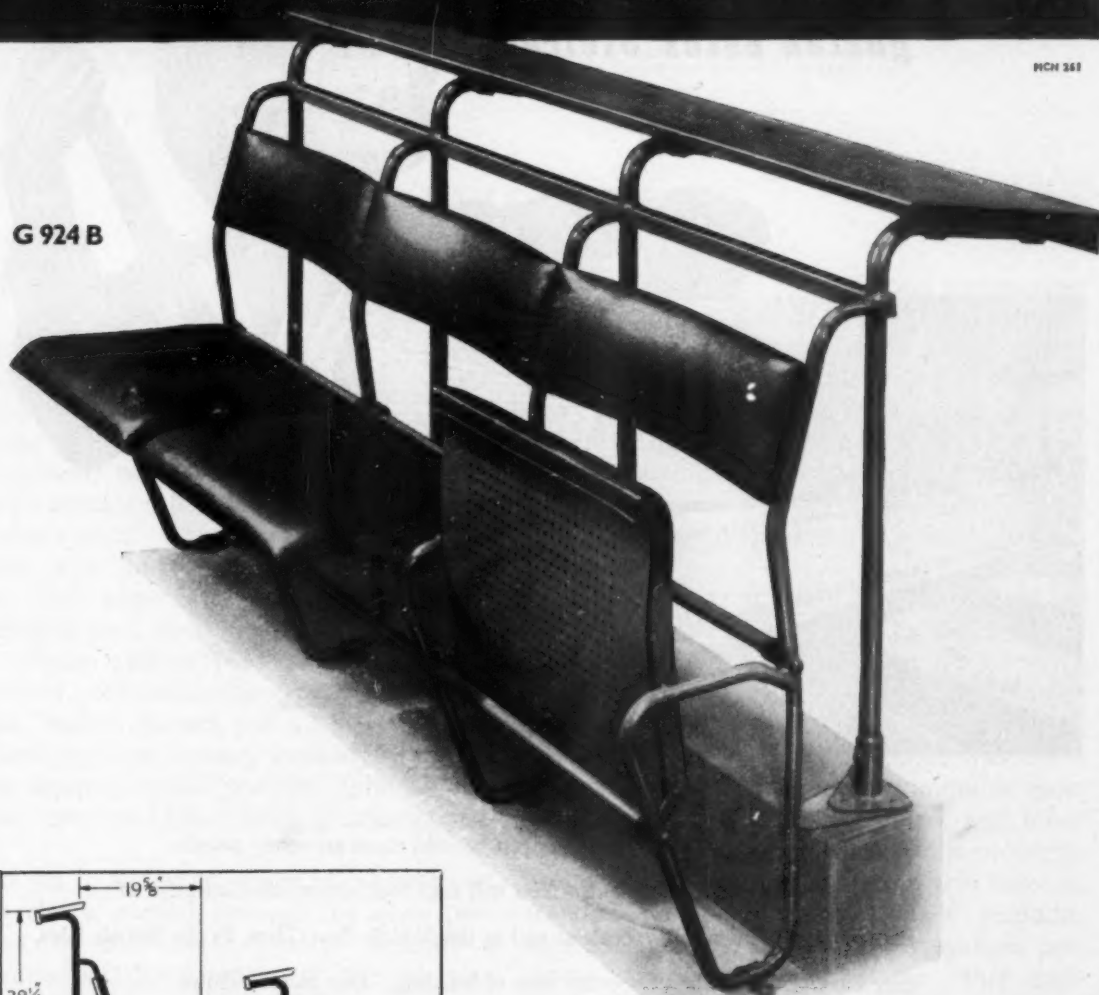
VULCANITE LIMITED
TRIDENT WORKS, WIGAN • and at
GLASGOW • LONDON • BELFAST

COX

SPECIALISTS
IN
TIP-UP SEATING

91CM 361

G 924 B



Stanchion centres width 20 inches.

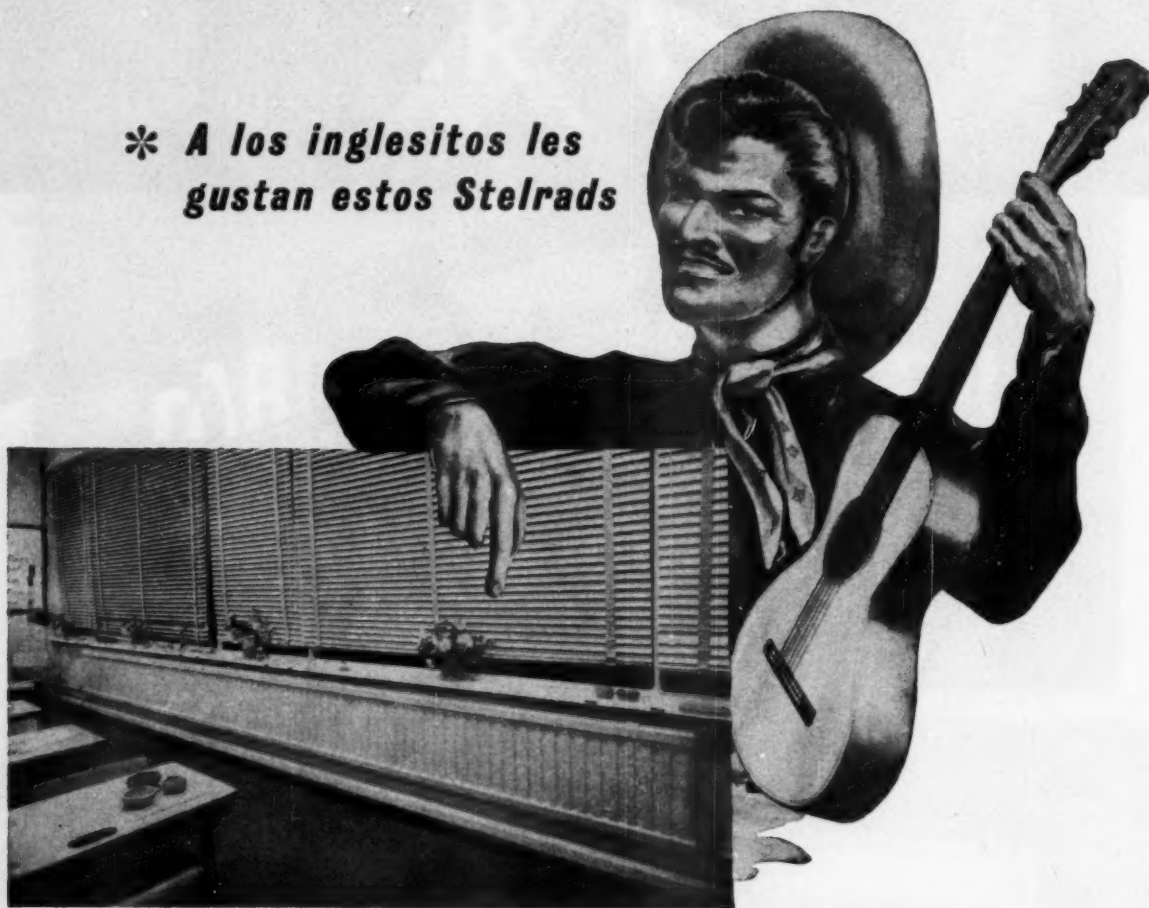
An inexpensive form of tip-up seating, fitted with writing ledge, for permanent floor fixing. The seats are upholstered, and the back-rest is of preformed plywood or upholstery to match the seat.

A descriptive illustrated booklet will be sent on request.

COX & CO (WATFORD) LTD · WATFORD BY-PASS · WATFORD · HERTS · Telephone : Watford 25631

Everybody Knows a Stelrad

** A los inglesitos les gustan estos Stelrads*



In South America where the winters can be cold there are many people who draw comfort from Stelrads. You will find Stelrads on the Continent of Europe, in Australia, New Zealand and in the Middle East. Here, in the British Isles, they have been specified for every type of building. Our picture shows a classroom in Putney Vale Primary School.

** These Stelrads are very good for the little English children.*

**STEEL RADIATORS
LIMITED**

BRIDGE ROAD, SOUTHALL, MIDDLESEX

Telephone : Southall 2603

THE ARCHITECT & BUILDING NEWS

4 February 1959

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. Annual subscription: home, £2 18s. 0d.; overseas, £3 8s. 0d.; Canada and U.S.A., \$10.00. Registered as a Newspaper. Published by ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD STREET, LONDON, S.E.1. Telephone: Waterloo 3333 (60 lines). Telegrams: "Architonia, Sedist, London". Branch Offices: Coventry: 8-10 Corporation Street; telephone, Coventry 25210. Birmingham: King Edward House, New Street, 2; telephone, Midland 7191. Manchester: 260 Deansgate, 3; telephone, Blackfriars 4412 and Deansgate 3595. Glasgow: 26a Renfield Street, C.2; telephone, Central 1265. © Iliffe & Sons Ltd. 1958. Permission in writing from the Editor must be obtained before letterpress or illustrations are reproduced from this journal. Brief abstracts or comments are allowed provided acknowledgment to the journal is given.

NO PANIC POLICY

THE problem of the motor vehicle has crept up on Britain in the manner of those "Things" in science fiction which begin as something of great benefit to man and end by virtually destroying him.

In the nineteenth century our communications system, particularly in the metropolis, was well abreast of the needs of the time. An extensive system of roads was being properly drained and surfaced, the great London estates had generously provided for every conceivable need of coach and horse, and the new railway system performed marvels in multi-level communication by means of viaduct, cutting, tunnel, and all the latest and best that modern science, backed by adventurous finance, could provide. The Underground completed this miracle of communications.

And yet in the short space of 50 years we are in chaos, caused through the mass production of the motor vehicle without a corresponding development of the surfaces for its use.

Now the easiest, but most unwise, policy would be to set up, in the present state of panic, tough Roads Authorities with powers to cut through the tangled knots of urban muddle with bold urban motorways, as has been done with American cities. But, paradoxically, this would only make matters worse, and could in fact end in the disintegration of the city itself.

It is of the greatest importance that our legislators should appreciate that basically

the problem is not one of road engineering but of town planning, of having a comprehensive planning approach within which the roads must play their part. In certain cases, for instance, it might be cheaper and better to move some economic activity that was generating a large amount of vehicular traffic than to carve a swathe through a highly built up and perhaps architecturally irreplaceable area.

If we consider the problem first as one of town planning it is clear that the development plans of the 1947 Town and Country Planning Act did not go nearly far enough. Only in the large-scale studies demanded by the comprehensive development procedure was there a possibility of an adequate technique to meet such a critical need. The centres and inner areas of our largest cities, where the problems are so acute, must be treated in this fashion, so that the possibilities of new viaducts, tunnels, fly-overs, pedestrian segregation, precincts, car-parking, and all the other techniques of communications can be considered to a visual design-size-scale in relation to the overall objective of creating cities which can fulfil their fundamental purpose of civilized living.

As we have to spend a lot of money, let us not be short-sighted either in the details of the road specification or in our overall approach to the problem. Let us spend it wisely, and not in panic fashion, as befits a mature country with a new but already considerable international prestige in planning.

EVENTS AND COMMENTS

TOWN ROADS FOR TODAY —AND TOMORROW

This is the title of an impressive exhibition organized by the British Road Federation and opened last week in the Great Hall of the Institution of Civil Engineers by the Minister of Transport and Civil Aviation. In his speech Mr. Harold Watkinson gave some figures of Government expenditure on roads today and tomorrow. The sums sounded huge enough, but then Government figures always do. It would have been better, perhaps, if he had talked in terms of miles of completed road. In three years' time, it seems, we shall be spending money on roads at the rate of £60 million a year. That is fine, until you read that in American experience roads in big cities cost on an average £4 million a mile and that some parts of our own motorways have been calculated at £5 million a mile. Mr. Watkinson had come straight from the House of Commons where he had been answering questions about the Preston Motorway failures and where he had resolutely refused demands for a public inquiry into them.

The really depressing part about the Minister's speech was his lack of reference to the aesthetic problems set by building motor roads in big towns. He had something to say about the challenge which urban roads presented to technical achievement, but made no reference whatever to the disastrous consequences that raised motor roads, flyovers and tunnels may have on townscape. Mr. Watkinson only had to look around him for examples of what can happen when motor-mad engineers are let loose on the great cities of the world, but it was by then too late as his speech was already written. The opening was an engineers' occasion and I only saw one architect, Mr. H. Bennett, of the L.C.C. He at any rate had some cause for satisfaction in that he collaborated in the design of the Hammersmith flyover, pictures of which were published on the same day and are included in the exhibition. This half-mile job will cost nearly £1½ million and was due to be discussed by the L.C.C. yesterday. The main structure will be in prestressed concrete and the central supporting columns will be spaced up to 140ft apart. It certainly looks "slim and elegant" as claimed in the hand-out. The fly-over was designed by G. Maunsell & Partners in association with Mr. Joseph Rawlinson, the L.C.C.'s chief engineer, and Mr. Bennett.

To condemn all the schemes in this comprehensive and very well arranged exhibition as the machinations of the devil would be silly, but they do show how

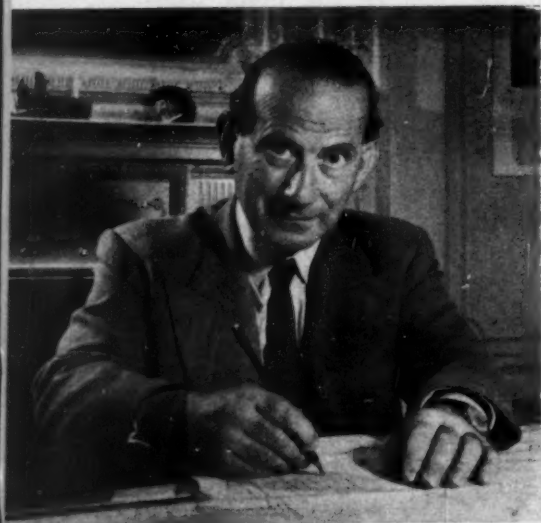
"civilized" mankind is being driven by the motor-car to ruin many of its cities. Many of the great winding ribbons of road at different levels are tremendously dramatic when seen from the air. They may also be impressive from the driver's seat, but as often as not their effect on the towns through which they are cut or over which they fly is catastrophic. The need for better urban roads is urgent, the knife rather than medicine is called for because we have left treatment so late. We must make sure that the patients are not maimed or do not die on the operating table. Technical difficulties apart, tunnels at crossings are less obtrusive than fly-overs, and many good examples can be seen on the edge of Paris and in Brussels. The raised highway—of the type asked for in the Prestressed Concrete Development Group's current competition—works very well where sufficient width of road exists. Brussels has an example of this. It has made a fine speedway that utterly ruined a fine boulevard. In Scandinavia—and particularly in Sweden—they have seen the traffic boggy in the distance and have planned for it. Other countries such as ours are trying to ease the situation before everything grinds to a stop. Desperation is bad for aesthetics and we shall shortly be desperate. Ring roads and roads over railways seem among the most sensible solutions to through traffic. The bringing of high-speed private traffic into the heart of cities seems to me to be mad. Cars should be left outside or in specially isolated areas within easy public transport reach of the centre. The city must be kept for human beings, not machines.

R.I.B.A.'s INTEREST

The R.I.B.A. is concerned about the threat to our towns and country of roads whose aesthetics and landscaping have been insufficiently thought out. I hear that the R.I.B.A. feels, quite rightly, that these important aspects of road design can only be safeguarded if architects are included on the urban road study groups set up by local authorities on the advice of the M.O.T. & C.A. The Minister has declined to say that this *should* be so and referred the R.I.B.A. to the local authorities concerned. Letters have now been sent to several local authorities urging that the city architect should be a member of the group.

On the question of new trunk roads, there has, I believe, been adverse criticism in the R.I.B.A. Council of the landscaping and visual appearance of road furniture. The support of those concerned with national amenities has already been enlisted.

The replies so far received from town clerks of cities



Left: the late
Felix Samuely



Right: H. J. Whitfield Lewis

where study groups are being set up have been anything but reassuring. Constant pressure from everyone interested will be needed if we are to avoid being landed with hundreds of miles of new highway and urban motorway as undistinguished in appearance design as the Preston By-pass.

NEW COUNTY ARCHITECT

It must be a long time since there were so many important changes among the high-ups of the architectural, design and building world. The latest news is that Mr. H. J. Whitfield Lewis has succeeded Mr. C. G. Stillman as Middlesex county architect. He has been principal housing architect at the L.C.C. since 1950, and before that was with Norman & Dawbarn for a total of seven years. As a young man he worked for Mendelsohn & Chermayeff and was the assistant in charge of Chermayeff's own very interesting house in Sussex. Mr. Whitfield Lewis is a keen small-boat sailor.

THE LATE FELIX SAMUELY

News of Mr. Samuely's death came as a severe shock. I knew that he had been ill some time ago and had been advised to take life more quietly. This was asking too much of him. His energy and ebullience never flagged, and now we are without him. He was one of our greatest and most imaginative structural engineers and one of the few who really understood the mind of the architect. Architecture will be very much the poorer by his death. Everybody loved Sam.

LE CORBUSIER EXHIBITION

A visitor to the Building Centre last week was surprised to find half the ground floor full of giant packing cases. When he asked Frank Yerbury whether the centre was on the move again, he was told, "Oh no, it's just an attack of internal 'corbustion'". The exhibition was due to be opened by H.E. the French Ambassador yesterday. I have seen enough of it, by spying, to say that it is a most exciting show. The catalogue is an excellent production and at 5s is a bargain, for it contains many illustrations and several articles on Corb and his work.

Four guide lectures have been arranged. They will be given on February 12, 19 and 26 and March 5 from 5 to 6 p.m. Speakers will include Jane Drew, Reg Butler, Peter Smithson, Ernő Goldfinger, Fello Atkinson, Harper Ellis, James Stirling and Sir John Summerson.

The exhibition will, I understand, be covered by B.B.C. sound and TV. Rumour has it that a team has gone to Paris to film Corb himself for "Tonight". The Third Programme has a discussion, "Le Corbusier and the Future of Architecture", on Friday next, February 6, at 9.45 p.m. Speakers will include B. Lubetkin, Graeme Shankland, James Stirling, Colin Rowe and George Kassaboff.

CHANGES AT THE C.o.I.D.

Sir Gordon Russell is to retire at the end of the year. He has been director of the Council of Industrial Design since 1947 and has done a wonderful job. He has maintained his enthusiasm and boyish outlook in a way that is the envy of everyone who knows him. The C.o.I.D. owes very nearly everything to Sir Gordon, who combines, almost miraculously in one person, the knowledge of the industrialist, the training of the designer, the skill of the craftsman and the zeal of the crusader. This is not all, for he is a delightful speaker and the most excellent company.



Left: Sir Gordon Russell. Right: Mr. Paul Reilly

It is nearly a year to his retirement, but no one need worry about what he will do with himself when the time comes. His craft skill will no doubt be put to good use, whether it is in carving stone, making furniture or replanning his garden. He may even find time to shift a huge boulder which has been lying outside his gate for years waiting for attention. He will, I know, be completely happy in retirement. We, on the other hand, shall miss him very much and the various design functions of the London year will be the duller for his absence.

Mr. Paul Reilly, who succeeds Sir Gordon on January 1, 1960, has been deputy director of the C.o.I.D. since 1954, having served as chief information officer from 1948 to 1954. He is already well known as his master's shadow. Son of the great Professor Sir Charles Reilly, he read economics at Oxford and the London School of Economics. Before joining the C.o.I.D. he worked mainly as a journalist. He was with the *News Chronicle* for five years and then with the *National Trade Press*, where he concerned himself mainly with plastics. During the war he graduated from trooper in the Royal Armoured Corps to lieutenant R.N.V.R. Mr. Reilly is also well known for his writing on design and architecture and has toured and lectured widely in Europe.

His wide experience with Sir Gordon at the C.o.I.D. fits him admirably for his new appointment, and although he is following a very remarkable man we may have every confidence that under his direction the C.o.I.D. will continue to develop as a powerful influence in the cause of good design.

NEW LEVER HANDLES

Mr. A. G. Roberts presented the prizes last week in the competition for the design of a lever handle which his firm recently organized. The ceremony took place at the Building Centre where some of the entries were exhibited. Mr. Anthony Cox, F.R.I.B.A., speaking as one of the assessors, said that on the whole the results were disappointing. The first prize of £100 had not been awarded. A large number of entries were fantastic and the production of many of them would have been quite impossible. The most elementary requirements of a lever handle were overlooked by many competitors. Mr. R. Planck, a director of A. G. Roberts Ltd., told me that his main reason for organizing the competition had been because of the criticisms by architects of stock articles. He thought he would like to give architects a chance to see what

NEWS

N.F.B.T.E Annual General Meeting

The annual general meeting of the National Federation of Building Trades Employers was held in London on January 21. The following points were among those made during the discussion on the annual report:

Thermal Insulation, housing: it was hoped that methods of carrying out the standards would be discretionary and not laid down in the model by-laws. It was said that 30 to 40 methods would be set out in the by-laws. This would help the small man, but did not prevent the use of other approved methods.

Labour Matters: the Southern Counties were nearly one hundred per cent against any reduction of working hours. If they were reduced the employers would demand certain things: such as a tightening-up of tea-breaks (have them in the men's time) and greater flexibility of hours.

Institute of Builders: Every builder of repute should join and give it financial support. The special admission regulations would cease in May.

Members should use their qualifications as a matter of public relations. Ignorance was the biggest problem in the industry. Builders should follow the example of the architects in organizing their institute to combat this.

Education and Training: Foremen—the City and Guilds two-year course was too long for young men who were moving about from site to site. Some firms were not indenturing their apprentices. Could the federation insist on this? It would help matters in the provinces.

The industry had about 3,000 apprentices less at the end of 1958 compared with 1957.

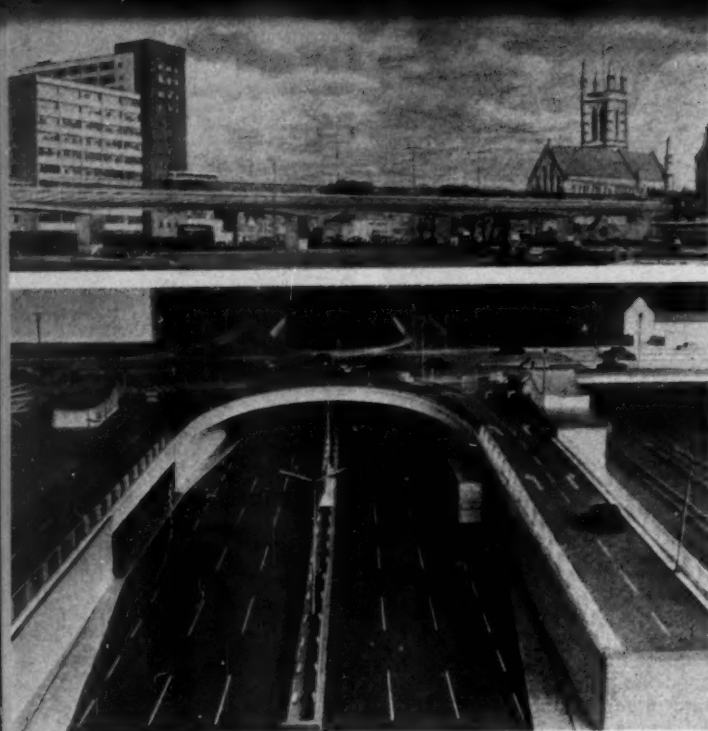
Annual Dinner

The federation's annual dinner took place at Grosvenor House, Park Lane, on Tuesday, January 27, the evening prior to the annual general meeting. Speakers were: The 1958 president, Mr. C. P. Howells, Mr. Hugh Molson, M.P., Minister of Works, Mr. T. V. Prosser, senior vice-president, 1958, and Sir Percy Thomas, past-president, R.I.B.A. References were made to the retirement of Stanley Hearder, the federation's director since 1945, in March. Mr. Molson said the Ministry of Works will be sorry at losing him: "He was never backward in voicing your (N.F.B.T.E.) interests, but has been sympathetic to our (M.o.W.) problems." The Minister welcomed Peter Trench ("It is the next generation coming forward"), Mr. Hearder's successor, and wished him the best of luck. Mr. Prosser welcomed particularly the presence of the P.R.I.B.A., Basil Spence. He had a friendly dig at architects: "... who distinguish themselves by doing to your house what they would never dare do to their own." Sir Percy Thomas deplored two men of such wide experience as "Bill" Spragg (secretary, R.I.B.A.) and Stanley Hearder retiring in the same year ("It's going to be a loss and it's a damn shame"). Sir Percy said he thought the N.F.B.T.E. annual dinner and dance one of the most colourful and happiest of functions—a sentiment we warmly endorse.

Federation's New President

Mr. T. V. Prosser, of Liverpool, has been elected president of the National Federation of Building Trades Employers for the 1959 session.

Mr. Prosser entered into pupilship in an architect's office in 1925 and after one year he transferred to the office of William Thornton & Sons Ltd., building and engineering contractors, Liverpool, for one year's training. He decided to remain in the building industry. In 1935, as agent for Thornton's, he used the moving form technique of construction and has since become an expert in this technique. He was elected a director in 1936 and managing director in 1945.



Two of the many schemes illustrated in the exhibition "Town Roads for Today—and Tomorrow", on show at the Institution of Civil Engineers until February 7. At the top is an artist's impression of a section of the £1,200,000 flyover to be constructed at Hammersmith. The lower picture shows a model of the ring motorway, Berlin, where it passes under the Hohenzollerndamm

they could do. The result, in a field of 67 entries, six from architects. This kind of thing is most discouraging to a manufacturer who tries to do something progressive and constructive. Mr. Planck has every reason to think that the profession has let him down. Nevertheless, the firm is to be congratulated on its enterprise.

LUTYENS AT THE A.A.

I have never seen so many bald heads at the A.A. as I saw gathered to pay tribute to the memory of Sir Edwin Lutyens last week. Many eminent members were attending for the first time in years. The famous were headed by the senior past-president of the association, Mr. Curtis Green, who was president 47 years ago. The room was packed to suffocation with people who had worked with Lutyens or known him, but in spite of this great fund of information and experience it was not a very good evening. To begin with, 15 people were down to speak. The knowledge of that alone was enough to give the audience the horrors, while it soured the 50-odd who would have liked to have spoken. Almost everyone spoke for longer than their material warranted, only Hope Bagenal and Robert Jordan were really worth hearing. The reminiscence and anecdote of old friends was too wrapped up with unimportant facts, and I found that I learned very little about the great man. An evening with so many speakers should be properly produced and rigidly controlled. In the room there was material for a first-rate sound radio programme. As an A.A. meeting it was a failure and this was a great pity for it will be a long time before the next Lutyens evening. Let us hope that the B.B.C. scouts will take it up.

ABNER

He was elected to the council of the Liverpool Federation of Building Trades Employers in 1936, and became president of that federation in 1956. In addition to his chairmanship of the National Federation's Contracts Committee he also serves on its executive, finance and defence committees, and is a member of the Joint Consultative Committee of Architects, Quantity Surveyors and Builders. He is one of the industry's four representatives on the Joint Contracts Tribunal and represents the federation on the contracts committee of the Federation of British Industries. He is also a member of the Board of Building Education, and a Fellow of the Institute of Builders. He is also a governor of the Liverpool College of Building.

The new senior vice-president is Mr. D. E. Woodbine Parish, London, and the junior vice-presidents are Mr. C. R. Setter, J.P., Bristol, and Mr. F. Russon, Birmingham. Mr. N. Longley, C.B.E., Crawley, was re-elected hon. treasurer.

* * *

Federation's Annual Report

The annual report of the N.F.B.T.E. describes 1958 as "a difficult year" for many builders, manufacturers and suppliers. Building output, as measured by the official Index of Industrial Production, fell about 3 per cent in the first half of 1958, compared with the first half of 1957. In the same period, slightly under 23 million sq ft of industrial buildings were approved, compared with 32 million sq ft in the first six months of 1957. At the end of June, 1958, £148 million worth of educational projects was under construction in England and Wales, compared with £165 million worth a year previously. In Great Britain 232,897 houses were under construction at the end of September, 1958, compared with 256,808 in 1957. The number of operatives employed fell from 1,066,000 in July, 1957, to 1,049,000 in July, 1958. Total unemployment in the building and civil engineering industries was 44,735 in August, 1958, compared with 29,813 in August, 1957, the areas primarily affected being those with no major urban concentrations of population such as East Anglia, Devon and Cornwall. The amount of unemployment in building rose by some 19,000 between July and November, 1958. As the effects of the removal of controls begin to show themselves, there should be a gradual improvement.

Safety in Building

The N.F.B.T.E. Building Regulations and Safety Committee has expressed its appreciation of the growth regionally and locally of the movement for greater safety in building. The committee have prepared a booklet to assist member-firms in preparing an accident prevention policy by setting out the principles of a basic managerial structure in this field. The booklet will be circulated to all members early in 1959.

Joint Contracts Tribunal

Instructions were delivered to counsel early in the year to prepare a first draft of a revised text of the R.I.B.A. Standard Form of Contract. These instructions were based on the recommendations of the Joint Contracts Tribunal.

Building Advisory Service

During the year the Building Advisory Service undertook 52 assignments for 44 firms who are members of, or associated with, the N.F.B.T.E. These assignments covered general organization, accounting and clerical methods, contract planning, incentive schemes, joinery shop layout and methods, plant and transport and work study. The number of firms who have employed B.A.S. now exceeds 150.



Mr. T. V. Prosser,
new president of
the N.F.B.T.E.

In addition to these assignments B.A.S. held 44 courses on work study, planning, accounting and clerical methods on behalf of local associations and 18 similar courses for individual firms. Approximately 750 supervisors and executives attended these courses and in almost every instance repeat courses have been requested. A further 25 courses have been arranged for the period January/April, 1959.

Report of the Federation of Registered House-Builders

It seems likely that the number of houses completed in 1958 will be of the order of some 275,000, of which nearly half will have been built by private builders. While it is disappointing that the numbers of houses built by private builders have not increased sufficiently to balance the fall in local authority building, the percentage contribution of private enterprise has continued to increase and in recent months has surpassed the number produced by local authorities.

* * *

I.A.A.S. President

Mr. R. E. J. Harding, F.I.A.S., F.I.A.R.B., A.M.S.E., was elected president of the Incorporated Association of Architects and Surveyors on January 24. He succeeds Mr. F. J. Meekins, F.I.A.S., F.I.A.R.B.

Official Architects' Association

The Association of Official Architects was formally constituted in London on Saturday. The association has hitherto been known as the Local Government Architects Society. Its address is c/o the R.I.B.A., 66 Portland Place. More details will appear next week.

Smoke Control Speed Up

Mr. Henry Brooke, Minister of Housing and Local Government, is calling for faster progress in removing the smoke pall from the "black areas" of England and Wales. He has asked councils in black areas to inform him by the end of June how long it will take to deal with their domestic smoke problems, what smoke control orders will be needed, and their order of priority. He is asking for five-year-phased programmes.

In a circular to local authorities, Mr. Brooke points out that about half the smoke comes from domestic stoves and fireplaces burning coal, and that it is mostly discharged low down where it does the greatest harm. To

(Continued on page 130)

R.I.B.A. PRIZES AND STUDENTSHIP, 1959

The criticism of students' work submitted for R.I.B.A. Prizes and Studentship, 1959, took place last evening. Below is the address by the R.I.B.A. President, Basil Spence. The criticism by Edward Mills will be published next week

YOU will have heard that Professor Ludwig Mies van der Rohe has been awarded the Royal Gold Medal for 1959, and I feel certain that there is universal approval of this award because Mies van der Rohe is a world influence in architecture—a man advanced in years when recognition from the R.I.B.A. has come rather late in life.

I can well remember, immediately after the war when I was demobilized, that Mies van der Rohe was all the rage. The young architects in the schools of architecture practically worshipped him. His philosophy of the delicate enclosure of space and pure structural expression swept through the student population, almost like a hot gospel. But I must admit to being considerably puzzled recently, when I have heard young people say that he was no good at all, that his work had nothing for them and that the great Corbusier was their idol and his philosophy was all that mattered in this day and age. The implication was, of course, that if work did not show the influence of Corbusier it was just rotten.

Now I think that we should look at this whole situation coldly and without undue passion, and we must admit that there are three giants now living who have affected the faces of our cities and, as the young know all about them, our future cities as well. I think that their influence will go far and wide. I refer, of course, to Frank Lloyd Wright, Le Corbusier and our most recent Royal Gold Medallist, Mies van der Rohe.

It is of great interest to me that they have created fashions in design, which, like fashions in women's dress, go in and out with alarming rapidity. But I would like to point out, if possible, the motivating force behind these three masters. I think they all have one thing in common—it is a strong desire to create architecture, and it is architecture they care about. Mies is reported to have said that he did not wish to be known as an original architect, but only a good one, and this points to a fundamental dedication through his own personal faith to the creation of works of architecture. We, as architects, must respect this point of view, it is the quality of his work that matters, and whether it qualifies as great architecture.

I am convinced that all great architecture has the eternal constants. There is something in common.

First of all, it is the sensitive enclosing of space, where the emotional and intellectual response in the critic or viewer, or the man in the street, is strong and positive, and he feels it. The great space, like St. Paul's dome, which is architecture, never fails to impress me through its sheer volume, and the magnificent way that space is enclosed. In exactly the same way; I think, Mies throws around a spider's web of delicate engineering, creating architecture of a rare beauty. Corbusier, on the other hand, creates space of a different character, strong, beautifully sculptured, thrilling and exciting, in its abstract form; he encloses space with rhythms of a different kind—the depth of material and weight come into it, showing perhaps the opposite approach. We have, of course, a superb example of this in his Chapel at Ronchamp.

Frank Lloyd Wright is very diverse in his works, and some of his human interiors, especially his own personal houses, show a flow of intimate space from one chamber into another. He, of course, dedicates his work

to the service of man, he believes in organic growth, he believes that buildings should grow almost like plants. When one sees his creations in the desert of Arizona and in his native America, there is a mysterious indigenous quality about this very original architecture. We all await with interest his latest great work, the Guggenheim Museum in New York; and this at the age of 89!

But where does fashion come in? Fashion, I firmly believe, should not be discounted; it should not be thrown overboard. It is useful as a stimulus, it is useful as a prop. It tends to give confidence to lesser mortals. But I think this is where it ends. The fact that Mies or Corbusier or Frank Lloyd Wright does something spectacular should not cloud the whole vista, but be taken as one great man's approach to the problem, and if lots of people like to think in this way it may create a fashion, but it is only a stimulus and not an end in itself. I can't help thinking that some of the other and deeper facets of modern architecture, such as structural expression, the use of materials that are suited to their purpose, and various other philosophies which get tied up in a sort of architectural code of ethics, are in themselves stimuli. I believe that they stimulate the artist and give him confidence and feed his integrity: but in the end one has to ask oneself "Is it architecture?"

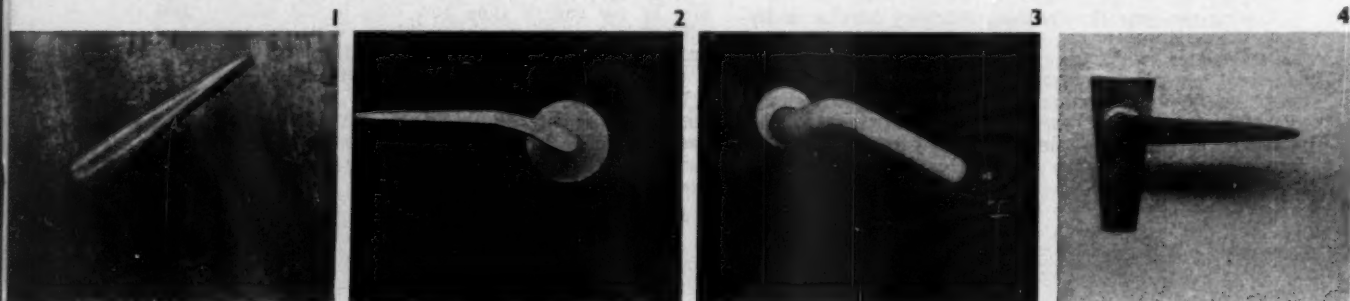
Early in this century a great deal was written about functionalism. We all know that the early theories, that if a thing functioned it was bound to be beautiful, have been disproved time and again. But function should also be regarded as a stimulus. It can clear the mind and simplify the problem if one is interested in function; it is a stimulus, but it cannot be the final goal. Here, again, the question has to be asked: If function is an important stimulus, does it produce in the end architecture?

In my presidential address I drew some conclusions from beautiful buildings in the Acropolis in Athens. It has often puzzled me that the columns and entablature, beautifully worked in pentalic marble with engineering precision, culminating in that supreme work of art, the Parthenon, was made up of forms entirely designed for wooden construction, forms that had a structural significance in wood which are purely decorative in the final form on the Acropolis.

How is it, then, that the Parthenon is great architecture? I can't help thinking that the Greeks passed through the phase of truth in structural expression and entered into the sublime portals of perfection; they produced in the end great architecture.

I think that another constant, besides the enclosure of space, is the complete understanding of scale. The art of designing to the human stature is a subtle, difficult and interesting phenomenon. I firmly believe that we British architects understand this extremely well, and, believe me, I consider it a very great gift to be able to understand this very important facet of great architecture.

I also feel that quality is another constant. Quality, of course, is one of the eternal ingredients, but quality has many interpretations. I believe that the rough concrete of some of Corbusier's buildings has quality; I believe also that the Parthenon in pentalic marble has quality. Our cathedrals, glorious in their stone and their beautiful



carving, have quality. I believe that Mies's Seagram building has great architectural quality.

These never go out of fashion. These are only three of the elemental properties that make up great architecture. There are other constants like unity, vitality, conviction and evidence of genius in the author. Of course, there are stimuli which drop away when current conditions are forgotten and have to be looked up in history books; I refer to the social problems, the technical problems and the economic problems. All these drop away like dead leaves, leaving the building stark and naked to be seen for what it is. Even today when we go into an Adam house we look at it as architecture, we appreciate the space, we look at the doors, the proportions and scale, we look at the furnishings, we do not condemn by saying that the kitchen is very far away and most inconvenient, because in Robert Adam's day there were many servants. We do not consider the plumbing and the heating arrangements inadequate by today's standards as crippling. We look at it as architecture.

I must say that I was fortunate in experiencing one of the great privileges that could be afforded to any architect: that is to work with a genius. I worked with Lutyens many years ago, a quarter of a century to be exact, and recently when I visited Liverpool, where I am building a physics building, I went into the crypt of the Roman Catholic Cathedral there. I had recently visited Ronchamp and I was struck by the similarity in the weight and strength, and the desire to create space using depth of material, strongly modelled. Ronchamp, to me, is very similar in essence to the crypt of Lutyens' cathedral in Liverpool. The mouldings, of course, are Palladian in the crypt, where Corbusier does not use mouldings at all, but there is this understanding of what great architecture is, that is common to these two great men.

I would like to stick my neck out now and make a prediction. I think that Lutyens will come back into favour in the future. He has been under a cloud since his death, but I think there will be a gradual coming back to the appreciation of this very great man.

As a sidelight on these geniuses is an interesting common factor, that is their attitude towards their clients. When Frank Lloyd Wright was asked his opinion of clients, he said, "Oh, clients? Poor creatures." There is, of course, the story of Frank Lloyd Wright which I heard from the lips of Eddy Kaufmann whose father had commissioned that famous house, Falling Water. He wished to have a house party and he got in touch with the caretaker who reported that water from the roof was leaking in the dining room of the guest house, and with great difficulty Kaufmann senior got in touch with Frank Lloyd Wright over a network of telephones. He said, "The roof's leaking in my guest house at Falling Water", rightly named. Frank Lloyd Wright was quiet, he said, eventually, "Where is it leaking?" "In the dining room, on top of the table. What am I to do?" Frank Lloyd Wright answered, "Move the table."

Lutyens had the same attitude, and this story I am going to tell you illustrates his puckish sense of humour. In one of his country houses for which he was famous, he had designed a bedroom with a double back-to-back fireplace going through the centre of the room, leaving it as a free-standing element. When the client asked "Why?" Lutyens said, "I thought it would be very nice to chase a woman round that." This shows amazing self-confidence, which I think is common to all people who are seed-sowers of great architecture.

But I have left out the last one great factor which cannot be ignored: the personal belief in what you are doing.

There must be no hesitation. There must be complete accord within yourself. There must not be the flipping through the journals to see what you can pick up to make your design look all right. It must be more fundamental than that. It is, in other words, dedication to this great art of architecture and to dedicate yourself with belief, because I believe that in every one of you rest seeds of the British genius, in varying degrees, of course, the seed of quality, of scale, of appreciation of material, and of humanity. Nurture it, do not be apologetic, allow it to grow, be proud of it, it is your heritage.

Coming Events

The Scottish Design Centre

January 24 to March 21, from 10 a.m. to 6 p.m. "Cloth Fair". At 46 West George Street, Glasgow, C.2.

Irish Exports Centre

January 27 to March 6. Monday to Friday, 10 a.m. to 5 p.m., and Saturdays, 10 a.m. to 12 noon. Exhibition, "Irish Religious Goods and Ecclesiastical Art". At 235/241 Regent Street, London, W.1.

Royal Society of Arts

February 4 at 2.30 p.m. An Alfred Bosson lecture, "The Mechanization of Building Constructional Processes", by D. G. R. Bonnell, M.Sc., Ph.D. At John Adam Street, W.C.2.

B.B.C. Third Programme

February 6 at 9.45 p.m. "Le Corbusier", by Berthold Lubetkin, Graeme Shankland, James Stirling, Colin Rowe and George Kassarboff.

Royal Institute of British Architects. (Library Group)

February 9 at 6 p.m. David Mocatta, introduced by David Cole, A.R.I.B.A. At 6 Portland Place, W.1.

The Housing Centre Trust

February 10 at 6 p.m. "Prague Revisited and Reassessed", by Walter Bor, A.R.I.B.A., A.M.T.P.I. At 13 Suffolk Street, Haymarket, S.W.1.

Cement and Concrete Association

February 10 at 7.30 p.m. "An Introduction to Prestressed Concrete", by R. C. Blyth, M.A., M.I.C.E., M.I.STRUCT.E., F.I.P.H.E. At the Lecture Theatre, Maidstone Technical College, Maidstone.

LEVER DOOR HANDLE COMPETITION

The prize-giving is commented on by Abner, page 145. Below is the key to designs illustrated

Group 1—prize of £45 each

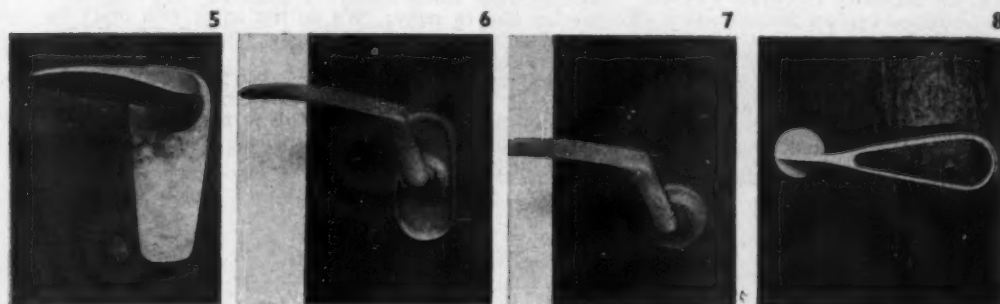
1. Eric Delf
2. Peter F. Ralph
3. Roger S. Edmunson

Group 2—prize of £30 each

4. R. R. Gray
5. J. E. Heritage
- 6, 7. F. Belsky

Group 3—prize of £10 each

8. Kenneth G. Sadler
9. A. Butowsky



NEWS CONTINUED

Continued from page 147

tackle this problem the Clean Air Act empowers local authorities to make orders creating areas in which smoke is banned from any chimney, unless specifically exempted.

He is asking that councils in "black areas" should now consider their domestic smoke problem as a whole (if they have not already done so) and decide on the smoke control orders that are needed, in what order of priority they should be made, and how many years it is likely to take to finish the job; and that they should then prepare a phased programme for establishing smoke control areas over the next five years.

Clean Air Act—New By-Law

The Town Planning Committee of the L.C.C., with the agreement of the Health Committee, recommended the making of the following building by-law at the council meeting yesterday:

"Smoke Prevention.—There shall be provided in a new building (except in so far as heating is provided by furnaces to which section 3 of the *Clean Air Act, 1956*, applies) only such appliances for heating or cooking as are suitably designed for burning any of the following fuels, namely: (a) gas; (b) electricity; (c) coke or anthracite; or are appliances of a description exempted from the provisions of section 11 of the *Clean Air Act*,

1956 (which relates to smoke control areas) by an order for the time being in force under sub-section (4) of that section."

Objections may be made by letter to the Minister of Housing and Local Government within six weeks after the publication of advertisements in the Press and technical journals. The provisions of the Clean Air Act generally are operated in London by the borough councils, but the proposed new by-law will be enforced by the L.C.C. as part of its general control of building. If approved, the by-law will be added to Part X of the London Building (Constructional) By-laws, 1952.

Arbitration Bar Benders and Fixers

The Industrial Disputes Tribunal, which heard the claim, on January 6, for craftsmen's rate of pay for qualified benders and fixers, has found that the claim has not been established.

Grants for 33 Historic Buildings

Another 33 grants towards the preservation of historic buildings in England, Wales and Scotland, were announced by the Minister of Works recently. Town properties figure more prominently than country houses in the present list. There are civic buildings, like the Assembly Rooms at Derby, the Moot Hall at Hexham, and the Debtors' Prison at York; Georgian houses in Coventry, at Highgate, and in the heart of London; a shop in Brighton and a Regency terrace in Hastings are also included.

Law and Administration

"Rates of Wages"

Common forms of building contract usually contain among the clauses included one which makes provision for the effect of wage-rate fluctuations in the contract price. This provision is, for example, set out in Clause 25A of the R.I.B.A. standard form of contract. Such clauses normally provide that if the "rates of wages" payable by the contractor are in certain circumstances increased or decreased then corresponding changes shall be made in the contract price. The actual phrase used in the R.I.B.A. contract is somewhat wider, being "rates of wages and other emoluments and expenses".

The Court of Appeal have recently been asked to decide whether the usual phrase "rates of wages" embraces sums payable by the contractor in respect of his employees to an agreed holiday scheme.

"Broadly speaking, the idea of this holidays scheme is that a sum is put aside each week for each employee who is then able, when the time comes for him to take his holidays, to draw out the amount standing to his credit. The question, put shortly, is whether the sum credited to the employees under the provisions...are within the clause...so that the contractor is entitled to demand payment if those holiday sums are increased, as they were in the present case."

The case concerned was *Henry Boot & Sons Ltd. v London County Council*. The Court considered that the holiday scheme in question was one which was covered by the clause so far as the necessary approvals were concerned since it had been agreed between an association of employers and the appropriate trade union. Examining the clause of the contract involved, Lord Somervell remarked:

"That clause is dealing with increases or decreases in the rates of wages; and I have come to the conclusion that a weekly sum which has to be credited to a man each week is within the expression "rates of wages" in this

clause. It is not a point which is capable of much elaboration; but if there is an increase in the amount by which each employee is credited at the beginning of each week in respect of this holiday scheme, it seems to me natural enough, for the purpose of this clause, at any rate, to say that the 'rates of wages' in respect of him have been increased."

The Court of Appeal were unanimous in this view, but leave has been given to appeal to the House of Lords.

The Meaning of Words

This case had another and almost equally interesting aspect. Before the contract under consideration was made, the L.C.C. wrote to the London Master Builders' Association saying:

"With reference to our recent conversation on increased costs, I have to confirm that Clause 23A of the contract restricts the increase or decrease to rates of wages payable only. Increases in the cost of holiday pay stamps are, therefore, not allowable."

If this letter had been incorporated in the contract the matter would, perhaps, have been beyond dispute, but it was not.

Its actual relevance is summarized in an old case in which it was said:

"The general rule seems to be, that all facts are admissible which tend to show the sense the words bear to the surrounding circumstances of and concerning which the words were to be used, but that such facts as only tend to show that the writer intended to use the words bearing a particular sense are to be rejected."

Lord Somervell summarized the effect of the L.C.C. letter by observing:

"The letter is, on the face of it, saying: 'This is what we say these words mean'; I think that the contractor was entitled to reply: 'We do not agree with that; we accept your contract, and let the court decide whether you are right, or we are'."

"The employers could have altered the contract by putting in express words, but they did not choose to do so; and, therefore, I think it falls to this court to follow the ordinary rule, and to construe the contract as it was agreed between the parties."



The showroom is designed to be seen readily by passing motorists. The show window is virtually continuous, and the deep canopy above acts as a foil against reflection. High-level glazing permits strong illumination of the arched rear wall

Photos: COLIN WESTWOOD

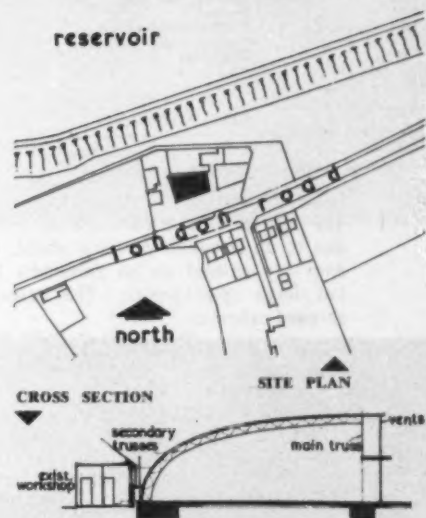
MOTOR SHOWROOM, STAINES

Architects: WESTWOOD, SONS AND PARTNERS
Structural Engineer: CYRIL BLUMFIELD

THE main design factor of this motor showroom at Staines, for E. J. Baker & Co. (Dorking) Ltd., was the provision of an uninterrupted display window which could be clearly visible to the passing motorist. The client strongly felt that multiple division of the window would result in ineffectual display, and therefore the essential requirement was an unbroken show window about 80ft long, free from reflection and obstructions and with a simple background. Although obviously the glazing had to be sub-divided, the use of extremely slender mullions has not detracted from a particularly successful solution to the problem.

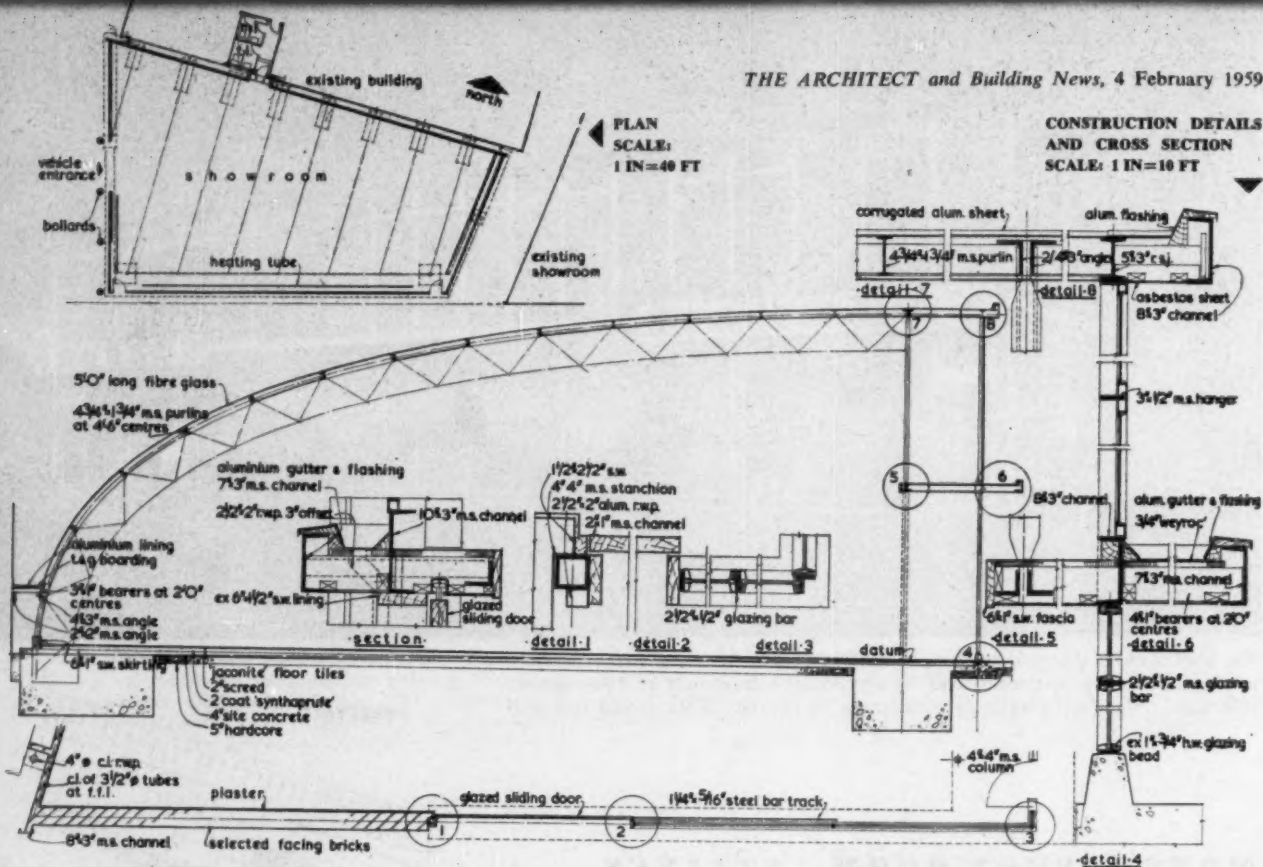
Construction and Materials

The roof is supported on light tubular steel arches which spring from floor level. Owing to the irregular plan form in which no two walls are parallel, each arch has a slightly different shape. Ends of arches are carried on a steel truss of 72ft clear span, supported on two 4in by 4in stanchions. Roof covering is in aluminium sheets, chosen for their reflective qualities, and for their 20ft lengths, which allow joints to occur at the best weathering position well down the roof slope.



The design is equally successful with artificial means of illumination. The building becomes a transparent showcase with a brightly lit background





The tubular steel arches are all specials due to an irregular building shape. The ends are carried on an extremely light, but large span truss. The ceiling is sprayed asbestos.

CAR SHOWROOM, STAINES

As there was bound to be some movement in a structure as light as this, the choice of a ceiling finish was restricted. Sprayed asbestos met this requirement and also provided excellent acoustic conditions. The softness of the surface is a disadvantage, but up to the level of the lowest windows it was sprayed with a hard coating.

A canopy suspended from the bottom boom of the truss acts as a wind brace, and as a baffle to reduce reflection on the display window. The reduction of reflections is mainly achieved by generous roof lighting through acrylic sheets.

Cost

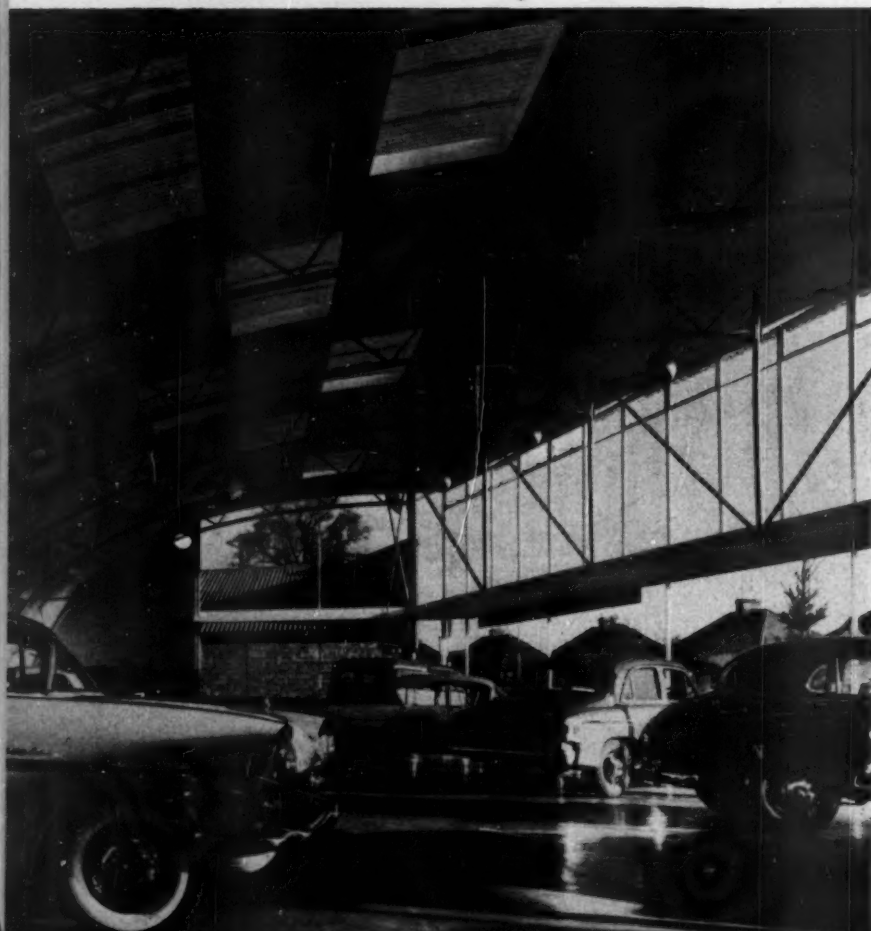
Total cost was £15,540, which works out at 70s 8d per sq ft of usable floor area, or 4s 2d per cu ft.

General Contractor:

GEORGE JARVIS & CO. LTD.

Sub-contractors and suppliers:

Ceiling: Carter-Horseley (Engineers) Ltd. "Dolomant" Floor: Jaconello Ltd. Electrical Work: A. Long. Glazing and Glass: James Clark & Eaton Ltd. Ironmongery: Steddall & Co. Ltd. Metal Windows: Ideal Casements (Reading) Ltd. Roofing: Carter-Horseley (Engineers) Ltd. Steelwork: R. Smith (Horley) Ltd.





General view of the garage, and two-level showroom

COACH SHOWROOM AND GARAGE, SHEFFIELD

Architect: T. I. FRITH

Quantity Surveyor: M. E. G. FELTON

THIS garage and showroom at South Anston, near Sheffield, was required by Kirkby & Sons (Sales) Ltd. who specialize in the sale of new and second-hand motor coaches. The clients required a headquarters on the main road, with facilities for reception of their customers, a repair shop and display rooms for coaches, and offices for their sales staff. A managing director's flat over the building was also required.

The garage is situated in a prosperous agricultural and mining area, and it was felt that the sale of petrol would be a useful adjunct to the business. This led to the provision of a greasing bay which, if proved unjustified, can be converted into a small two-level garage.

Planning

The site falls away steeply from the roadway, and a filled forecourt had to be provided. The repair garage, lower greasing bay, boiler room and stores are therefore at basement level. The main offices, upper showroom, greasing bay, and entrance to the manager's

flat are at ground floor and entered from the forecourt. The reception area is fronted by a small display window containing accessories, adjacent to the main two-level showroom.

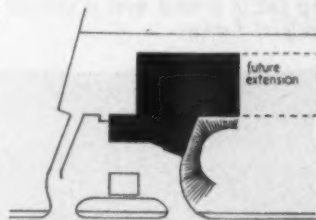
Construction and Finishes

Main building: load-bearing walls, with R.C. floor beams and prestressed roof beams. Flooring, grano in basement and garage, and thermoplastic tiles in offices and flat. Roofing, vermiculite insulating screed with asphalt finish.

Showroom: steel-framed construction, and load-bearing walls. Upper floor, prestressed concrete beams. Flooring, thermoplastic tiles. Display windows, glazed timber sliding-folding doors, and purpose-made window-wall of steel sections.

Repair building: steel framed with asbestos-sheet cladding.

Petrol station: the pumps are grouped in one island with the kiosk, and only the Derv is isolated. The canopy has reinforced concrete columns covered in aluminium deck and three-layer felt. The underside of



the deck is left exposed and the undulations accommodate four 8ft long fluorescent tubes to each bay, 12 in all.

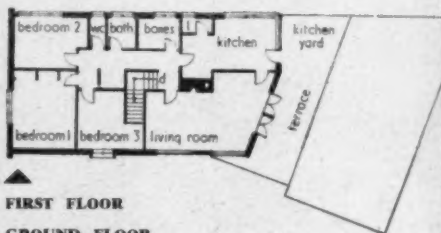
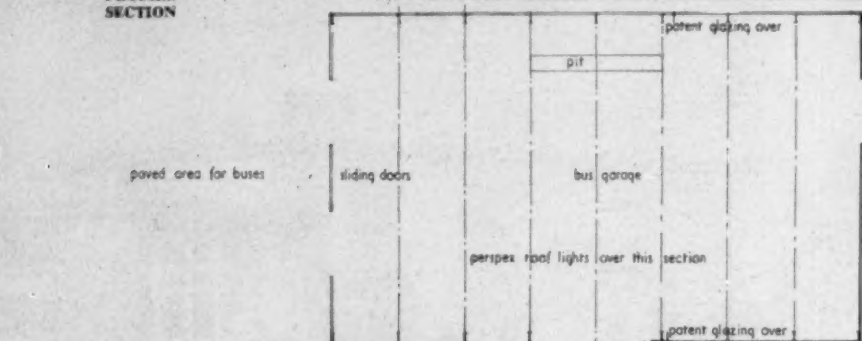
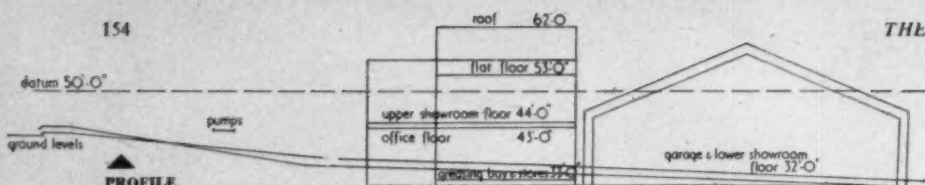
Services

Heating is by low-pressure hot water supplied by an oil-fired boiler to warm-air blowers in garage and showrooms, convectors in offices and radiators in the flat. The system is thermostatically controlled throughout. Hot water to the flat is supplied by an immersion heater, with electric water heaters in each cloakroom.

Cost

Contract price was £27,570 19s 2d.

PROFILE SECTION



FIRST FLOOR

GROUND FLOOR

SCALE: 1 IN=32 FT



BASEMENT

General Contractor:
ROBERT HARRISON & SONS LTD.

Sub-contractors and suppliers:

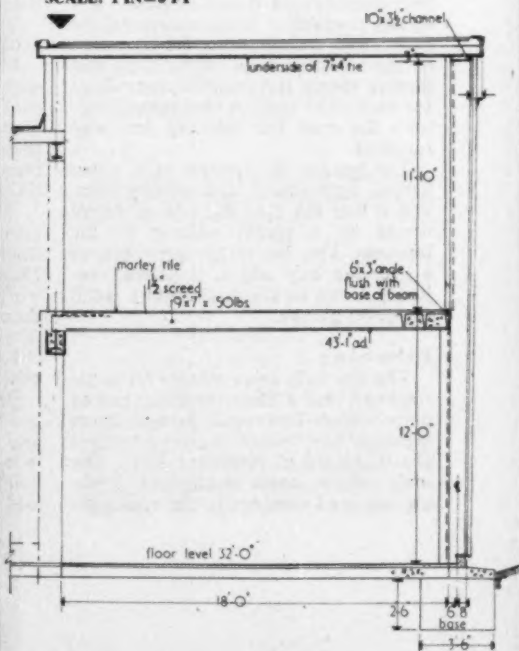
Aluminum Deck and Feltup to Pump Canopy: William Briggs & Sons Ltd. Asphalt Roofing: J. Hadfield & Sons Ltd. Bus Repair Garage: Cosaley Engineering Co. Ltd. Central Heating: Hayes Hasting & Steam Services Ltd. Cotswold Grey Facing Bricks: Richard J. Hurrell & Sons Ltd. Coving: J. H. Hurrell & Sons Ltd. Tiles and Handrails in Marleyroll: Marley Tile Co. Ltd. Ironmongery: Lewis & Grundy Ltd. Plastering, Wall Tiling, Monolithic Floors: George Peacock & Sons Ltd. Plumbing: I. H. Johnson. Pre-cast Concrete Frames to Pump Canopy: Jas. Turner & Sons Ltd. Sanitary Fittings: John Norton & Sons (Sheffield) Ltd. Showers and Showroom Glazing: Henry Hope & Sons Ltd.

A sharp fall in ground level is utilized for two-level display



SECTION THROUGH SHOWROOM

SCALE: 1 IN=8 FT





GARAGE AND SHOWROOMS, BRISTOL

Architect: C. W. HUTTON

Assistant in Charge: G. P. MYERS

Structural Engineer: H. G. COUSINS

Quantity Surveyors: BANKS, WOOD AND PARTNERS

THE new garage and motor showroom at Clifton, Bristol, for Windmill & Lewis Ltd., replaces their previous premises on the same site which were war damaged.

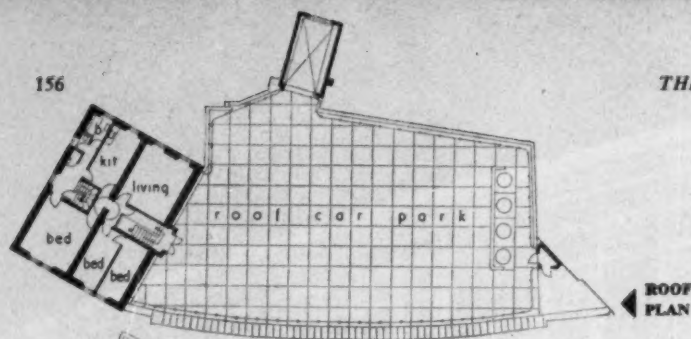
The new design had to take road improvements into account and by collaborating with the corporation, exchanging the land on the opposite side of the road and a set-back of part of the frontage of the old building, it was possible to obtain a generous forecourt.

In the elevational treatment, the architect was anxious to respect the Georgian character of Clifton and at the same time to build a good modern garage. With these ideas in mind the fenestration has been kept regular, the cornice is a variation on a classical theme but in pre-cast concrete, and string courses of extruded aluminium provide delicate moulding in a mass produced material.

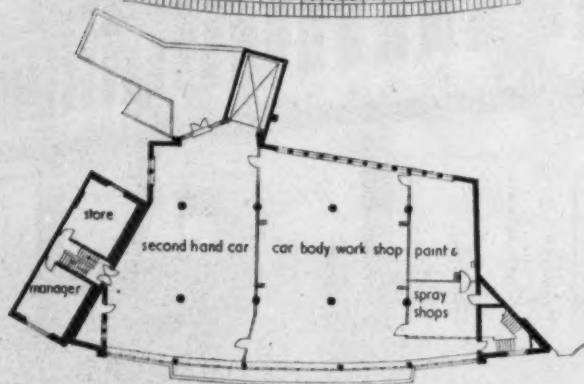
The design provides for showrooms and an access roadway to the rear workshops on the ground floor, a

Top, illuminated main view.
Below, the covered roadway to workshops, and vehicle lift to first floor. On the right and left are entrances to the showrooms

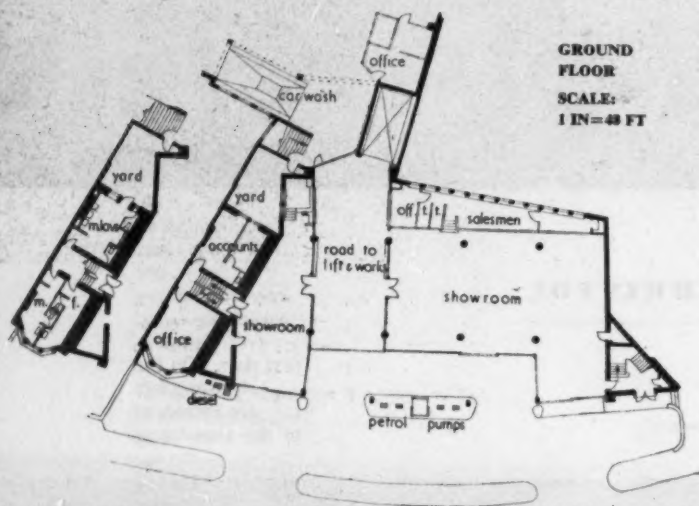
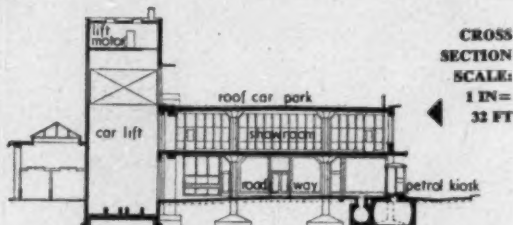
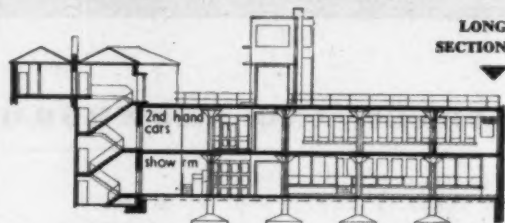




ROOF PLAN



FIRST FLOOR

GROUND FLOOR
SCALE:
1 IN = 48 FTCROSS SECTION
SCALE:
1 IN = 32 FT

LONG SECTION

Fenestration is made regular to respect the Georgian character of Clifton. String courses are faced in extruded aluminium, the moulded cornice is pre-cast concrete, and spandril panels are vitreous enamelled steel





GARAGE AT BRISTOL

glass windows framed with Honduras mahogany, chosen for its stability and freedom from warping. Metal framed doors would have been more costly. These showrooms are finished with woodblock floors.

The finishes have been selected for durability or economy. The columns are painted over the bare concrete, walls have been plastered on the ground floor only, hardwood has been used to avoid repainting. The first-floor showroom and workshops have a plain granolithic floor finish. Windows are steel, in wooden supporting framework which is bolted to the reinforced concrete. The floors required supporting beams along the outside edge, which have been placed above the slab and covered with vitreous enamelled steel panels, to give a touch of colour to the elevations. Apart from washing down, these panels should require no attention for an indefinite period.

The canopy is edged with extruded aluminium fascia. The overhanging concrete cornice has a moulded soffit, and is built of pre-cast sections. Wing walls and end piers are faced in Bath stone.

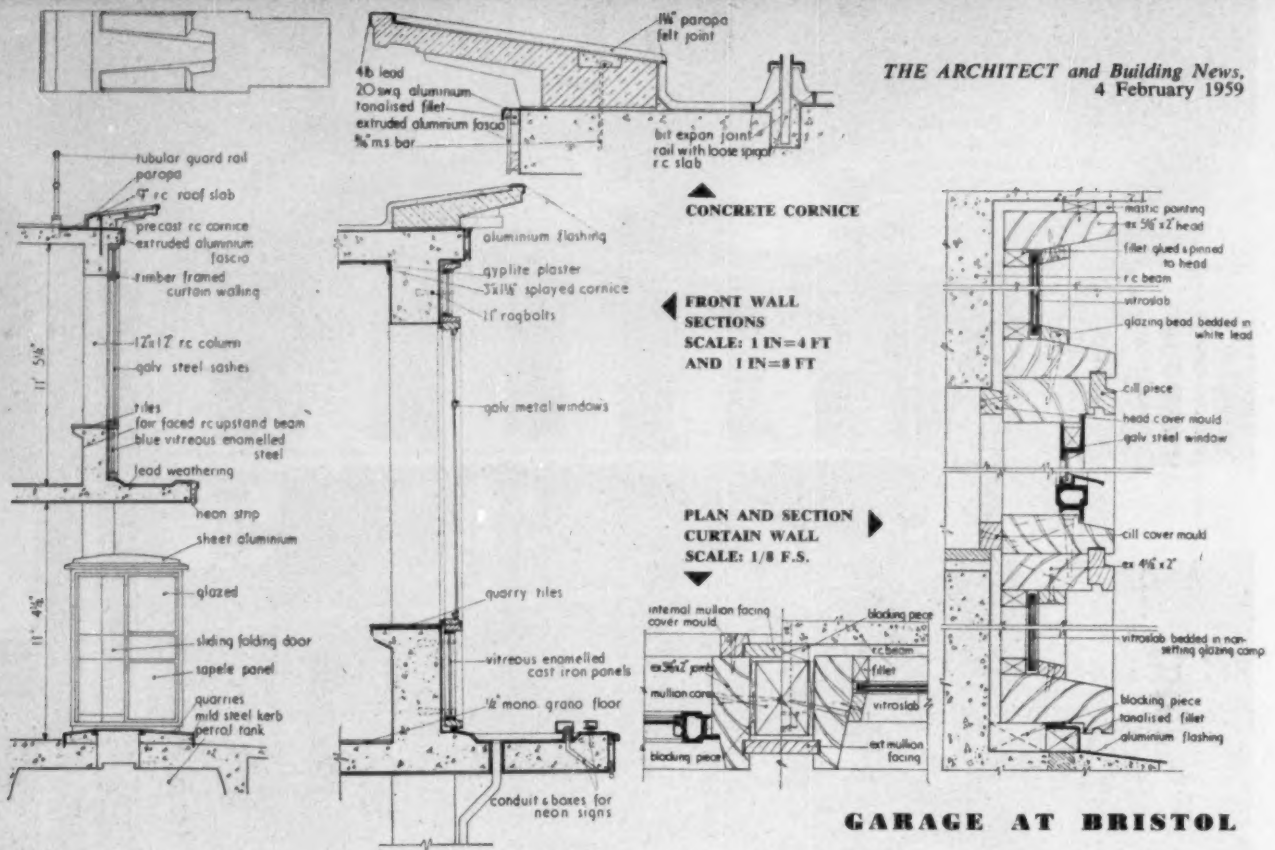
Cost	Cost £	Cost per ft sq. s d
Workshop extension ..	4,200	
No. 8 Merchants Road:		
Alterations and repairs	6,400	
Forecourt and petrol kiosk	2,700	
Main garage building:		
(a) Structure	37,600	54 4½
(b) Internal finishings ..	3,600	5 2½
(c) Services: lift, heating, lighting, plumbing, etc.	17,500	25 3½
Total	£72,000	84 10½

All costs are shown exclusive of professional fees. Preliminaries, insurances and estimated increased costs have been allocated to each item on a proportional basis.

The raised dais conceals heating and ventilation plant, and provides a reception area for sales staff. Mushroom columns are used to avoid deep beams and to reduce the building cube

Timber staircase serving the adjoining office conversion





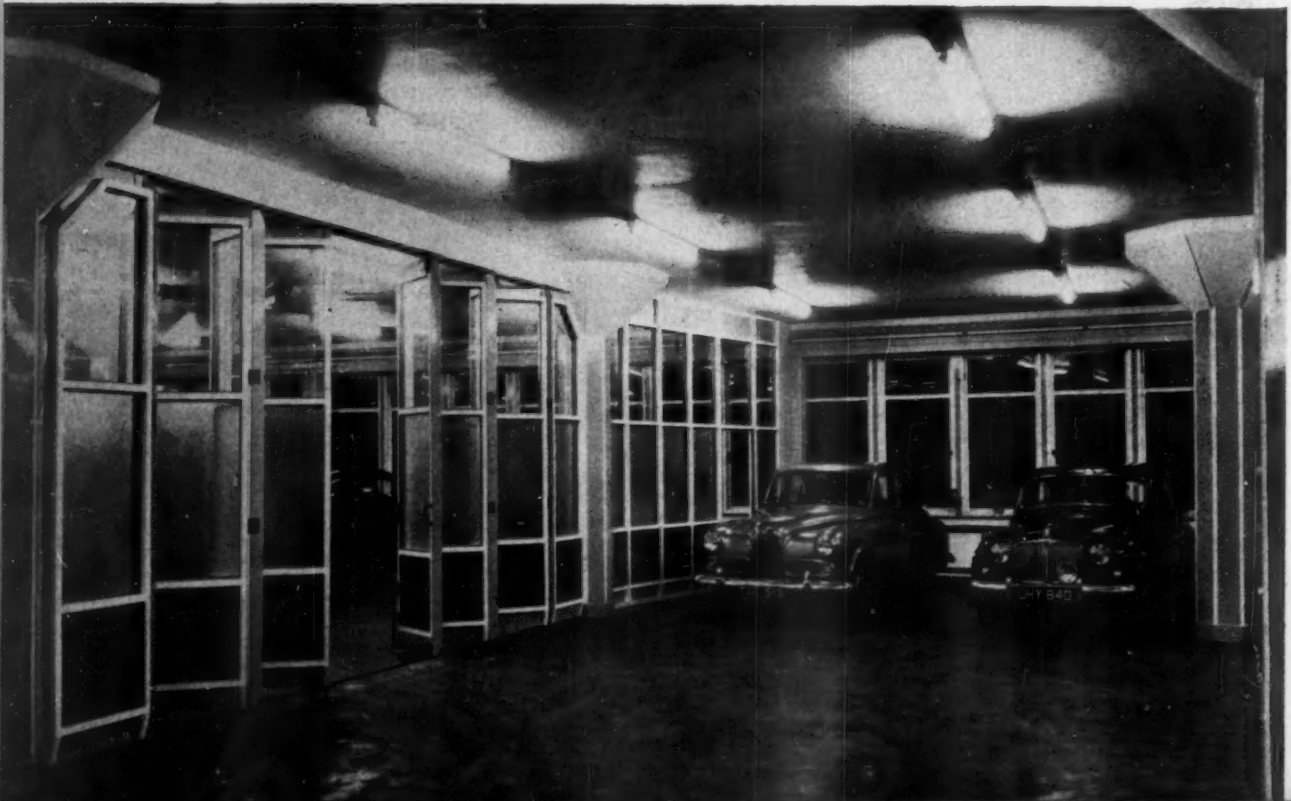
GARAGE AT BRISTOL

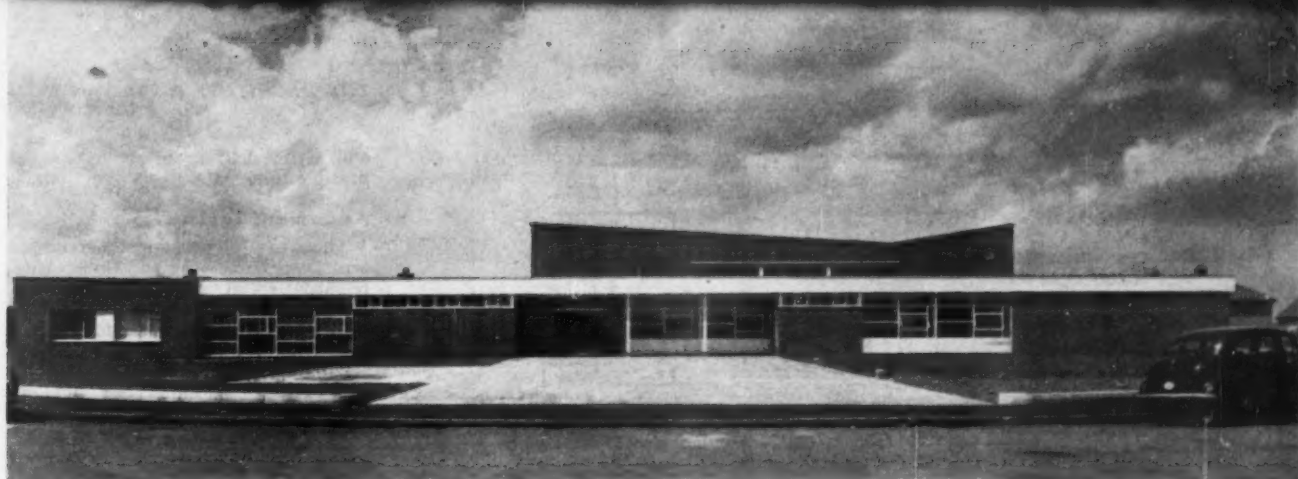
General Contractor: C. H. Pearce & Sons (Contractors) Ltd.

Sub-contractors and suppliers:

Acid-etched Glaze: Bristol Glaziers Ltd. Air Tower: Pneumatic Components Ltd. Aluminium Fascias: Northern Aluminium Co. Ltd. Amplifier and Loudspeakers: Dictograph Telephones Ltd. Bath Stone: George V. Williams & Sons Ltd. Bourne Seal: Floor Treatments Ltd. Bricks: London Brick Co. Ltd. Carpeting: Lincoln Ltd. Curtains: Newbery & Spindler Ltd. Electrical: F. H. Wheeler (Bristol) Ltd. External Balustrading: F. & R. Edbrooks Ltd. Flags and Poles: Joseph Bryant Ltd. Floor Polishing: Columbus-Dixon Ltd. Fluorescent Fittings: New Era Ltd. Gas Fitting: South-Western Gas Board. Glass Domelights: W. Goldman & Son. Glazing: John Hall & Sons. Granolithic Floors: Produrite Ltd. Handrailing Standards: Battles & Sons Ltd. Hardwood: William Mallinson & Sons Ltd. Hardwood Floors: Vigers Bros. Ltd. Heating and Ventilating: Brightside Heating & Engineering Co. Ltd. Hurston Stone: J. Whitehead & Sons Ltd. Illuminated Signs: Made to architect's design by Lightgleam Sign Service. Internal Balustrading: M.A.C. Engineering (Bristol); James Gibbons Ltd. Internal Telephones: Telephone Rentals Ltd. Ironmongery: James Gibbons Ltd. Metal Windows: Henry Hope & Sons Ltd. Office Furniture: Lincoln Ltd. Paint: Hadfields (Merton) Ltd. Perspex Domelights: W. J. Cox Ltd. Petrol Installations: Regent Oil Co. Plaster: Gyproc Products Ltd. Plumbing: Arthur Scull & Son Ltd. Pre-cast Stone and Concrete: Bristol Stone & Concrete Co. Ltd. Roofing: Frazer Ltd. Sanitary Fittings: Seisons Ltd. Showrooms, Doors and Windows: Esavian Ltd. Sign Writing: William Cowlin & Son. Sliding Door Gear: P. C. Henderson Ltd. Steel Reinforcement: Rom River Co. Ltd. Tecalemit Installations: Tecalemit Ltd. Vitreous Enamel Panels: J. R. Pearson Ltd. Wallpaper: Cole & Son (Wallpapers) Ltd.; A. Sanderson & Sons Ltd.

Car showrooms, first floor





East elevation from Church Street, and paved forecourt entrance

MINERS' WELFARE CENTRE

Architect: MICHAEL MOSS

Assistants: R. H. FAULKS and G. H. SIMPSON

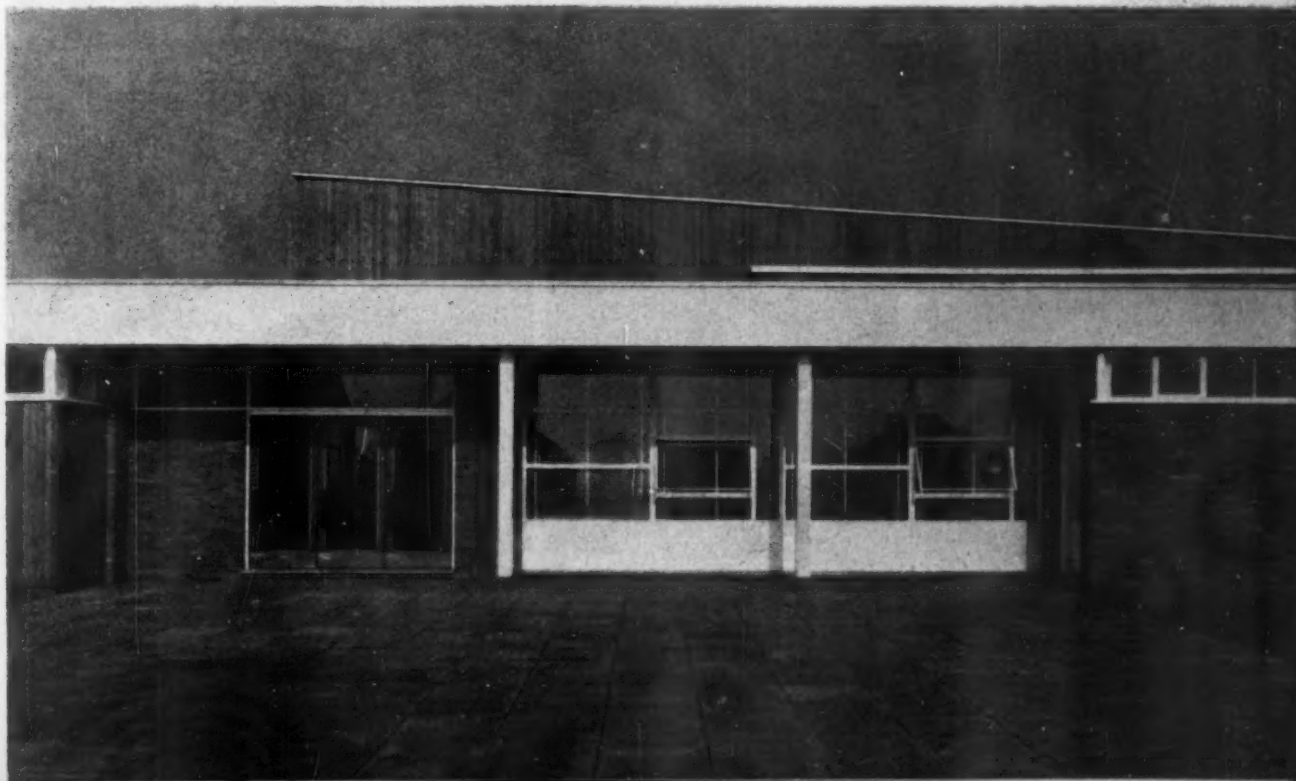
THE village of Bilsthorpe is one of the most isolated of the colliery communities in Nottinghamshire and up to the completion of this project the recreational facilities for the mining community were very poor. The existing working men's club, which for all intents and purposes was used as the miners' institute, was inadequate, although the village hall was used for cinema shows and concerts. The sports grounds are on the outskirts of the village and there are good facilities for football, cricket, bowling and tennis. The main requirement for Bilsthorpe was for a new building to take the place of the working men's club and village hall

and in 1955 the Coal Industry Social Welfare Organization commissioned this new project.

The existing institutes in the East Midlands Division and other mining areas are very similar to one another in planning, design and construction, and are completely out-dated. Since the building of these pre-war institutes mining communities have changed considerably with regard to their living standards, general outlook, and social position, and it was for this reason that something completely new was required at Bilsthorpe. The size and the remoteness of the village demanded a new conception of the welfare institute, the accommodation



Paved forecourt and main entrance to foyer and licensed bars



and layout had to be as flexible as possible to suit the many functions.

Accommodation

There is a fully-equipped bar service area which serves all three bars, billiards room and the main hall. with an electric goods lift to the basement. It is hoped that one of these bars will be a mixed bar as the accommodation in the majority of the existing institutes has not encouraged the miner to bring his wife or girl friend. It is hoped that the ladies will make use of the building for the various activities and opportunities that will now be provided.

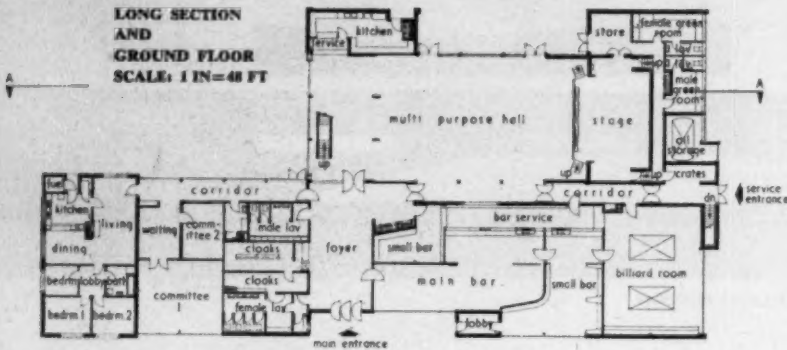
The billiards room has two full-size tables which will enable members to enter match competitions and hold exhibition games. The large and small committee rooms can be adapted for other activities if required and will provide a meeting place for the various sub-committees and organizations of the centre. A residential steward's flat is attached to the main building with direct access, as the building will be in continuous use for one activity or another and someone in constant attendance is therefore essential.

The centre is constructed on an island site surrounded by the local shops and houses, on what was once a derelict and unsightly area of waste ground. There is a car-park and a service road to the rear of the building, although there is in fact no "rear elevation".

Sheltered terrace on the west side of the main hall



LONG SECTION
AND
GROUND FLOOR
SCALE: 1 IN=48 FT

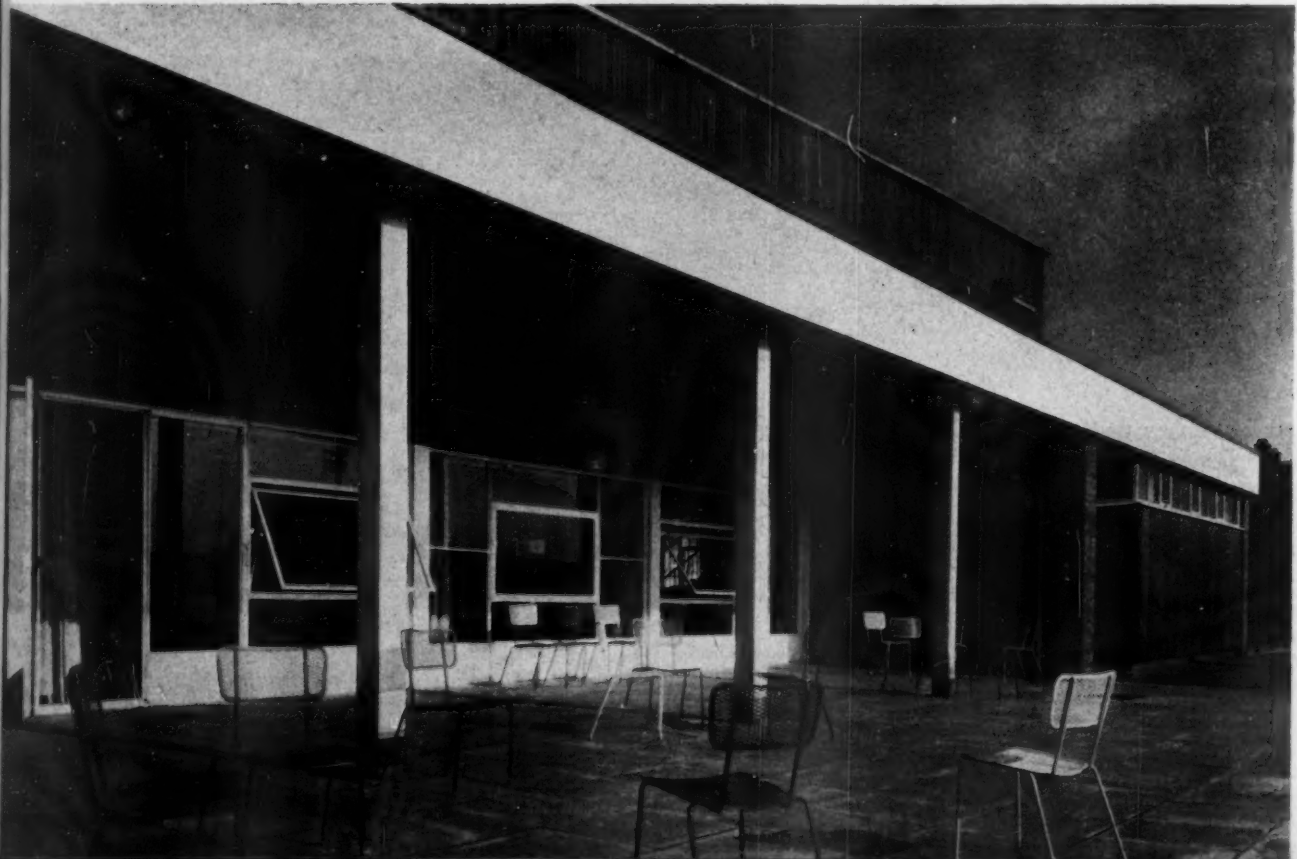


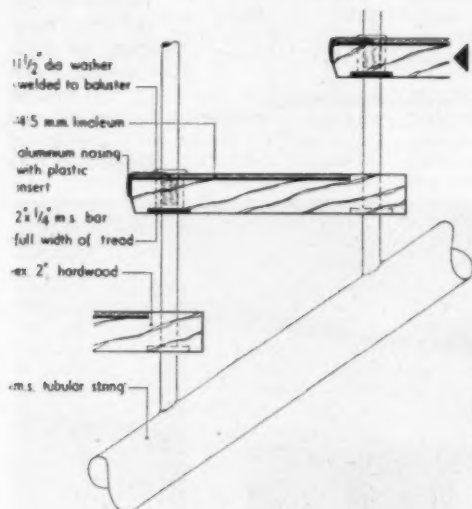
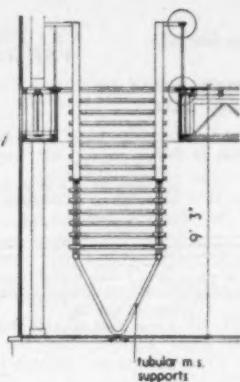
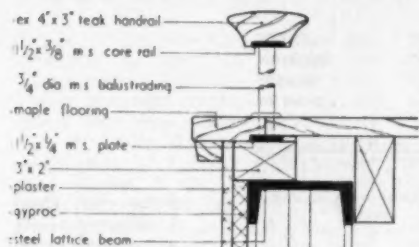
MINERS' WELFARE CENTRE

General Contractors: A. MASON (Contractors) LTD.

Sub-contractors and suppliers:

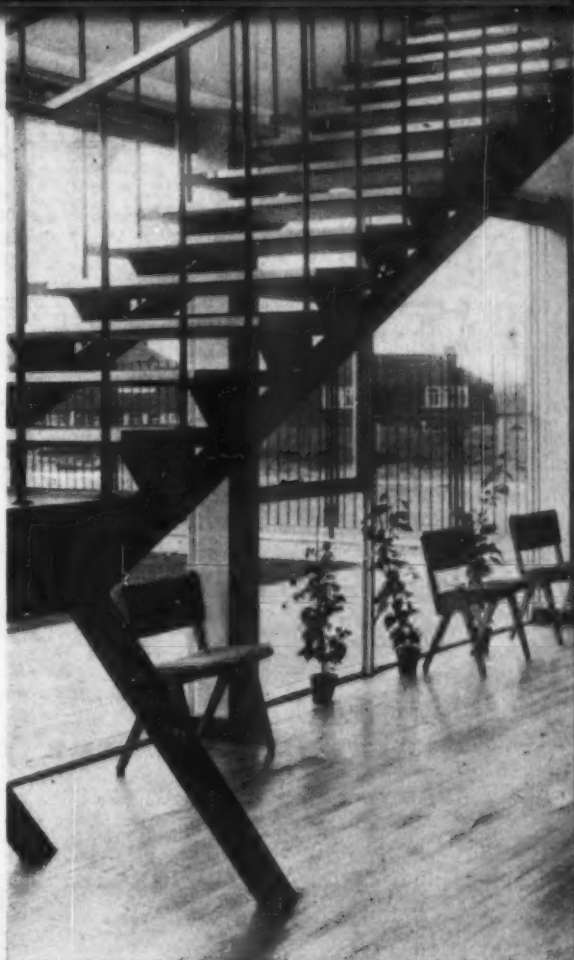
Bar Equipment: Gaskell & Chambers Ltd. Bar Fitting: Hopson (Shop & Storefitter) Ltd. Billiard Tables: Burroughes & Watts Ltd. Catering Equipment: Pearson Bros. (Nottm) Ltd. Electrical Installation: G. Dodd Ltd. Emergency Lighting: Sound Diffusion Ltd. Facing Bricks: Williamson, Cliff Ltd. Fibrous Plaster: W. J. Wilson & Son Ltd. Fire Equipment: Pyrene Co. Ltd. Furniture: Baresford & Hicks. Heating: Radiation Group Sales Ltd. Insulation Blocks: Thermalite Ltd. Ironmongery: Dryad Metal Works Ltd. Light Fittings: Falk, Stadelmann & Co. Ltd. Linoleum and Cork Flooring: Armstrong Cork Co. Ltd. Metal Windows: Henry Hope & Sons Ltd. Paint: T. & W. Farmlow Ltd. Partitions: Venesta Ltd. Reconstructed Stone: Trent Concrete Ltd. Reinforcement: G.K.N. Reinforcements Ltd. Roofing: The Ruberoid Co. Ltd. Sanitary Fittings: Adamsex Ltd. Service Lift: Keighly Lifts Ltd. Stage Equipment: Strand Electrical & Engineering Co. Ltd. Structural Steelwork: Neil Darroch (Engineers) Ltd. Suspended Ceilings: Paraclip British Plasterboard (Manufacturing) Ltd. Venetian Blinds: Sunway Venetian Vogue Ltd. Ventilators: Greenwood's and Airvac Ventilating Co. Ltd. Wallpaper: Palladio W.P.M. Ltd.





TUBULAR STEEL STAIRCASE
SCALE: 1/8 F.S.

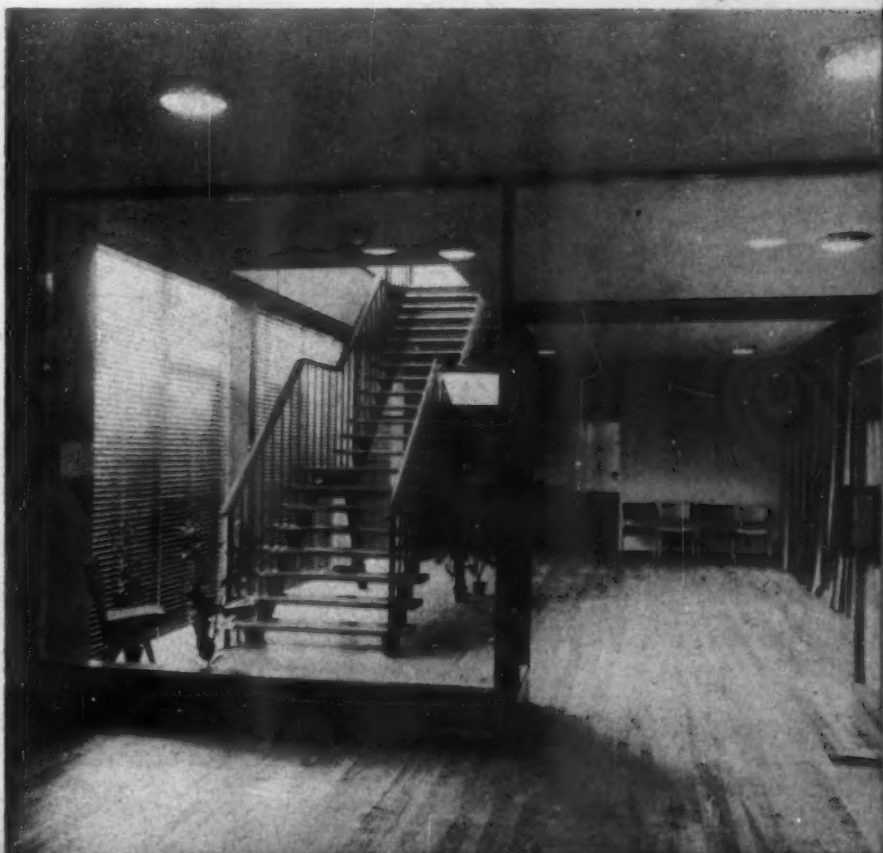
Staircase from the main hall to first floor balcony. The open hardwood treads are suspended on steel balusters, supported by tubular steelwork

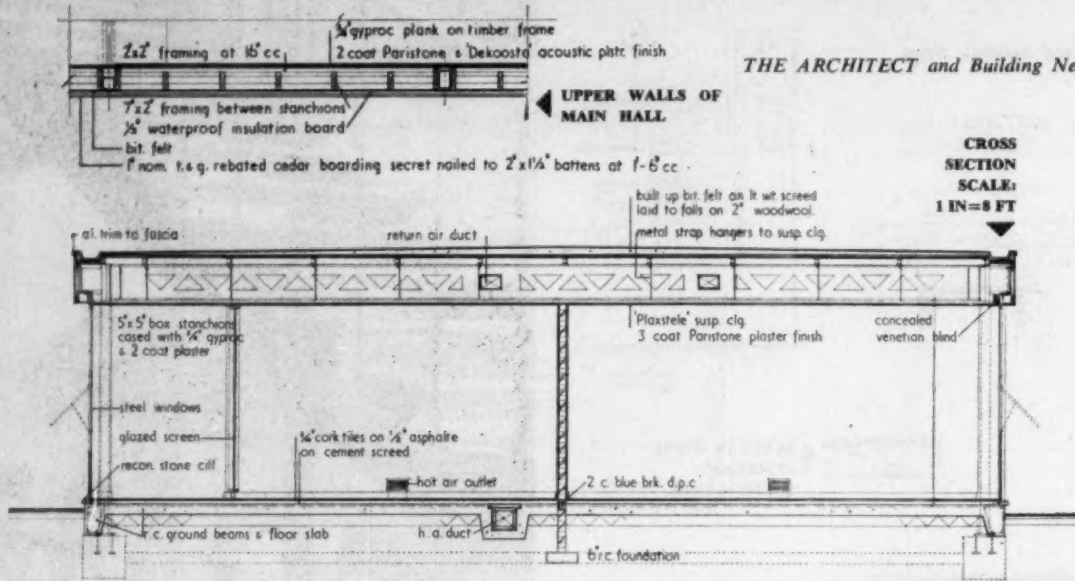


A curtained portion of the main hall, seen from the entrance foyer. Behind the staircase is a kitchen service counter

Construction and Materials

The building is steel framed on a mass concrete and R.C. strip foundation. The beer cellar directly below the bar service area is tanked with asphalt. The licensing authorities required a two-hour fire protection to all structural steelwork and this was obtained by using gypsum plank covered with a vermiculite/gypsum plaster. The internal partition walls are non-load bearing, the main welded trusses spanning 42ft at 12ft centres. The steel deck roofing is covered with insulation board over the main hall, and wood wool slabs on the lower areas, with a built-up felt finish. The heating is by warm air from units in the various sections of the building which can be operated independently as required. All ceilings are suspended to allow for the returned air ducting and services, etc. Certain units also supply hot water to the cloakrooms and bar service area. The upper walls to the main hall are clad externally with cedar boarding, the main walls are all 11in cavity brickwork with insulation blocks to the inner skin. All windows to the bars are double glazed.





Below, two views showing alcove and bench seating and a service counter in the two small bars. Bottom, the main bar counter, which has a white formica top and a front of Columbian pine

MINERS' WELFARE CENTRE



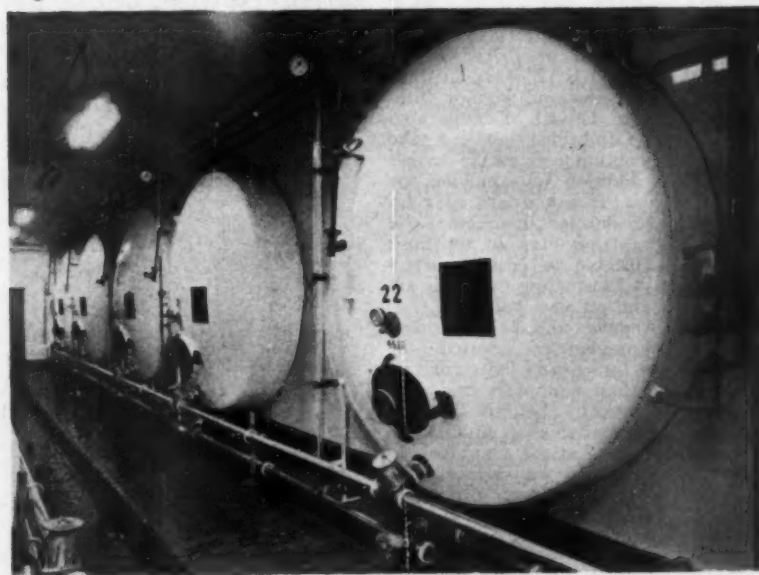
Industrial Notes

● The Newcastle City Council has awarded a contract, valued at approximately £250,000, for the reinforced concrete frames of three 12-storey and three 15-storey blocks of flats to Leslie & Co. Ltd., building contractors of London and Darlington. Leslie & Co. submitted their tender for the design and construction of the blocks in association with John Liversedge & Associates, consulting engineers of London. The contract is part of a large redevelopment programme which is being undertaken by the City Council, and work is due to start in April, 1959.

● Work has begun on important new research laboratories at Lathom Park, Ormskirk, Lancs, for Pilkington Bros. Ltd., the glass manufacturers. It is hoped that they will be completed by June, 1960. The buildings will consist of a main block containing an orthodox type laboratory for small-scale research work, with offices, canteen and lecture theatre. There will also be a laboratory for the use of larger equipment and apparatus, and a large-scale laboratory and workshop, where complete new processes can be developed. The designers are Courtaulds Technical Services Ltd. and the contractors, Holland & Hannen and Cubitts Ltd.

● Colonel H. Delacombe, O.B.E., has retired from the board of directors of Jablo Plastics Industries Ltd., because of ill health. Mr. W. Dunn has been elected to succeed him.

In the cold-conditioning room of the new block recently constructed for Watney, Combe Reid & Co. Ltd., at their Mortlake Brewery, non-inflammable Cobex (rigid vinyl), made by BX Plastics Ltd., has been used for walling in each end of the 240-barrel horizontal tanks. The Cobex is unaffected by refrigeration conditions, resistant to most chemicals, acids and alkalis, and can be hosed down. Consulting Engineers: Mark Jennings, Son & Partners



● Glow-Worm Boilers Ltd. have changed the name of their Rosi-Fyre high output back boiler set and continuous burning fire. It will in future be known as the "Glowbrite".

● This year's Corrosion Exhibition is to be held at the Royal Horticultural Society's new hall at Westminster, from April 27 to 30. Over 70 firms will exhibit their products. The opening ceremony will be performed on Monday, April 27, by Sir Owen Wansbrough-Jones, K.B.E., C.B., the chief scientist of the Ministry of Supply.

● At the council meeting of the English Joinery Manufacturers' Association, held on December 10, 1958, consideration was given to the following matters among others: architects' specification for hardwood joinery, sample shipment of Swedish Redwood, C.E.I.-Bois and European Joinery Federation State control of industry, and modular co-ordination in building.

● Henry Wilson & Co. Ltd., engineers of Kirkby, Liverpool, are to increase their factory space to more than double its present size. The company has acquired the lease on a factory adjoining its present Cornhill Works. Their Oilheat Division, which manufactures oil-fired pressure-jet and vapourising boilers, burners for conversion and warm-air conditioning units, is expected to be transferred to the additional premises by July.

● Mr. W. Wanstell has been appointed sales and technical service representative by Chloride Batteries Ltd., to cover the territories of East and West Africa.

● Owing to greatly increased production, the price of Bulgomme Silence cellular-based rubber flooring has been reduced by 10 per cent in Great Britain. Samples of this material, together with new prices will be supplied on request by Mr. B. J. Arnall, of 13 Montpelier Road, London, W.5, the United Kingdom commercial manager for Messrs. Pennel & Flipo, of Roubaix.

● Crompton Parkinson Ltd. have introduced completely new home trading terms for users, contractors and resellers of their lighting fittings and control gear. Full details are available on application to any Crompton Parkinson branch.

● Philplug Tuncarb drills, Screwfix and all other fixing devices, as well as the cold caulking compounds, P.C.3 and P.C.4, are now being marketed by Expandite Ltd., of Chase Road, London, N.W.10, and Secomastic Ltd., of Western Road, Bracknell, Berks.

● Non-inflammable Cobex (rigid vinyl), manufactured by BX Plastics Ltd., is now being used in a South-East London hospital for protecting cement, plaster and tiled corners. Previously, considerable damage has been caused to the corners of corridors, wards and kitchens by the vast amount of trolley carrying which takes place.

● Decorplast laminated plastic, manufactured by Holoplast Ltd., is used in the new Uniflex bedroom range, designed by Peter Heywood. It has been used on the continental headboard to face cupboards which let down to make bedside tables. Decorplast is also used to face the vertical surfaces of all the counters in the redecorated record department of Selfridges Stores in London's West End.

● Gerland Ltd., with registered offices at 130 Mount Street, Berkeley Square, London, W.1, has recently been incorporated and will market Gerflex plastics floor coverings in Great Britain. Mr. Percy Harris, formerly managing director of Lafarge Aluminous Cement Co. Ltd., is the managing director of Gerland Ltd.

ADDENDUM

The telephone number of Sun-X (Great Britain) Ltd., of 3a Wood Street, London, E.C.2, is Monarch 8709. This information was omitted from their advertisement which appeared on page 26 of our issue of January 28, 1959.

NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

Electric Convector Heaters (1)

The new Ekco Thermovent WM series of wall-mounting, steel-cased electric convector heaters has been introduced to replace the previous MRL series. The new models have a smaller projection from the wall, i.e., 5½in, and are easier to install than the MRL heaters. The two basic sizes of the WM series are 1kW and 2½kW. The smaller size measures 17½in wide by 22½in high and can be obtained either with or without automatic heat control. The larger size measures 26½in wide by 22½in high and is made either with automatic heat control or a half-heat switch. Alternative loadings of 750W and 1,250W for the smaller size and 1½kW for the larger heater will be available to order. All models are finished in hammer-bronze enamel and close-spaced wire guards are concealed behind the inlet and outlet grilles. A standard 40W amber-sprayed lamp provides a warm luminous effect. Installation and wiring are simplified by releasing two concealed screws which enable the case to be detached. Prices: WM1 (1kW) £10 12s 11d; WMC1 (1kW automatic) £12 0s 4d; WM25 (2½kW half-heat switch) £12 15s 6d; WMC25 (2½kW automatic) £13 18s.

Readers' Information Service, Ref. 1. Date 4/2/59.

★

New Floor Seal

Glitsa Matt floor treatment finish, a special development of Glitsa Gold Seal, is now being produced in this country. It is a hard-wearing finish and is intended for particular applications where a long-lasting, non-reflecting finish is required on good quality hardwood floors and wall panelling. Glitsa Matt is a self-curing plastic treatment and the addition of a hardener or catalyst is not required. A clear finish is provided which does not discolour the wood. The product



1

is applied by brush and two coats are recommended with very light sanding by hand after the first coat is dry. Normal drying time is two hours. Coverage per gallon is 30/40 sq yd on hardwood, providing for two coats. It is claimed that Glitsa Matt is non-slip, acts as a seal against dirt, grease, ink and water, is heat-resistant, and not affected by alcohol, detergents or dilute acids. Re-sanding of floors is not necessary if worn patches are re-treated before the Glitsa film is worn through. It is available in 1gall cans at a cost of 49s.

Readers' Information Service, Ref. 2. Date 4/2/59.

★

Mosaic Hardwood Flooring Range Increased

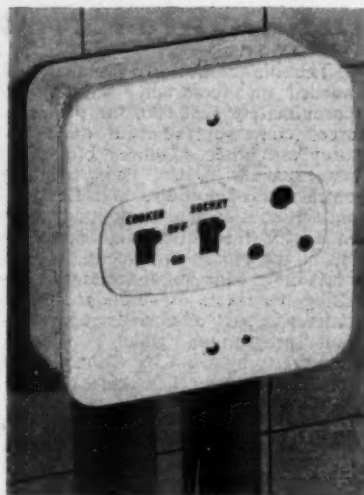
New woods and a new pattern have been added to the Marley range of mosaic hardwood flooring. This prefabricated parquet type of flooring was originally launched in Idigbo and Yugoslavian oak but is now available in sapele, other types of oak, and panels primarily of sapele but with an admixture of light-coloured ramin to give a strongly contrasting regular pattern. In addition, the company will shortly introduce a herring-bone pattern as an alternative to the normal basket-weave. This is laid in the same way, except that the edges of each 18in panel will interlock a little with the adjoining panels on all sides.

Readers' Information Service, Ref. 3. Date 4/2/59.

★

Cooker Control Units (4)

Units of the new Cambridge a.c. range of electric cooker controls are available for 13A or 15A circuits (B.S. 1833 and B.S. 438), in flush or surface versions and with or without pilot lights. Though officially rated at 30A, the Cambridge units can take up to 45A continuously on the cooker circuit, in addition to supplying the socket outlet. Housings are of zinc-coated steel, finished in cream stove enamel. The front plate of the flush unit is adjustable to ensure correct mounting. All insulating materials are anti-track and all steel parts are rust-proofed. Angular and height adjustment is provided to improve the accuracy of fitting, and the chassis of the surface unit cannot be mounted out of alignment. The box has five 1in knock-outs, two each at top and bottom, and one at the rear. Knock-outs below enable the surface units to be mounted direct to a recessed B.S. 1299/1363 box or to a B.S. 31 small conduit box which has 2BA screws at 2in centres. The neon pilot



4

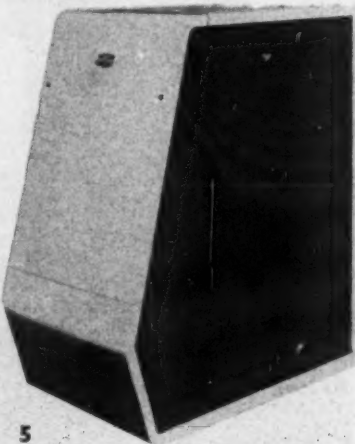
lamps can be replaced without removing the cover plate. Terminals will accommodate cables up to 7/064in. In the 15A unit, a replaceable cartridge fuse to B.S. 1361 is held in a fuse carrier. An earth terminal is fitted to the socket outlet to take a fly lead if required. Illustration is of a 15A surface-type control unit. Prices, including plugs, are: 13A 28s, 15A 31s 8d. Pilot light versions are 10s extra.

Readers' Information Service, Ref. 4. Date 4/2/59.

★

New Casings for Oil-fired Boilers (5)

Oilheat pressure-jet oil-fired boiler units, ranging from 80,000 to 808,000 B.Th.U. outputs, are now being supplied with a new streamlined casing which has been developed by Richard Hews, of the Liverpool School of Architecture, in co-operation with the C.o.I.D. The casings are made from pressed steel and are designed to reduce cost and time of installation, and to prevent damage during transit. The casing is built in sections and the front portion can easily be removed



5

for maintenance work. The casing shown in our illustration is for the 80,000, 118,000 and 160,000 B.Th.U. models, but a more rectangular pattern is provided for the larger units. *Readers' Information Service, Ref. 5. Date 4/2/59.*

★

Plastic Linen Bin and Stool (6)

A new dual-purpose linen bin and stool has been added to the Ekco Gold Seal range of domestic ware. The new item has a large capacity body made from satin-finished, laminated, resin-bonded birch. The seat top is available either with or without a cork inlay, and is made from black or white plastic. Dimensions: 17½in high by 12in dia. at top. Prices: with domed top—47s 6d (black) and 55s (white); with cork top—46s (black) and 52s 6d (white).

Readers' Information Service, Ref. 6. Date 4/2/59.

★

Radiant Panel Heater (7)

Two new high temperature radiant panel heaters with loadings of 750 and 1,500W, and of similar design, have recently been introduced by this company. The panels are designed for suspension on chains or conduits and average fixing heights are between 10ft and 12ft. Heat is radiated at a temperature between 450 and 500 deg F from a steel face plate, finished in cream vitreous enamel, and a mica insulated nickel chrome ribbon-type heating element, occupying almost the same surface area as the face plate, is sandwiched between the back of the plate and a layer of special high temperature insulation, which keeps back losses to a minimum. The insulation and element are shrouded by a metal back plate which incorporates a terminal box. Connections to the supply are made in the terminal box which provides for entry by ½in conduit or

bushed flexible, and includes an earth terminal. Panels are available for operation on the following voltages: 200/220, 230/250, A.C. or D.C., but other voltages can be supplied to special order. The 750W model measures 12½in by 12½in by 1½in, and weighs 7½lb. The 1,500W model measures 12½in by 24½in by 1½in and weighs 15½lb. Respective prices are 59n and £8. Three different types of suspension bracket are obtainable: horizontal, twin 30 deg from vertical, and twin 45 deg from vertical. Respective prices per pair are 9s, £1 14s 6d and £1 14s 6d.

Readers' Information Service, Ref. 7. Date 4/2/59.

★

Steel Angle Accessories (8)

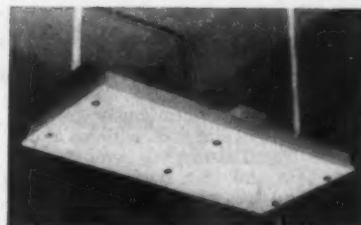
Two new steel shelves have been added to the Handy Angle range of products. These shelves, which are 2ft wide and either 18in or 24in deep, will add to the adaptability of Handy Angle for racking purposes. With the new shelves it is now possible to design racks in units of 2, 3, 4, 5 or 6ft and upwards, where before it was only possible to build to units of 3ft. The new shelves are made from 20 s.w.g. cold rolled steel, with edges double flat folded, and they bolt direct to the slotted angle upright. They have a distributed load carrying capacity of 1,500lb approx., and are finished as standard in satin bronze colour. Price: single shelves 18in and 24in deep, respectively, cost 14s 6d and 16s 6d. In packets of six, the prices are £4 7s and £4 19s, including a supply of nuts, bolts, washers and anchor plates.

Readers' Information Service, Ref. 8. Date 4/2/59.

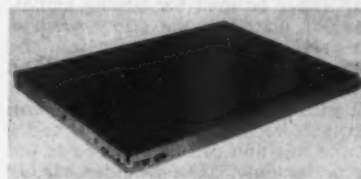
★

New Aluminium Sheet (9)

Noralduct is a new solid aluminium sheet which has internal systems of passages and ducts. It is particularly suitable for heat transfer equipment and, as the integral passages can follow almost any complex continuous pattern that can be drawn on paper, there are many other possible applications. It is already used for refrigerator evaporator plates, oil coolers, radio chassis coolers and domestic heating panels. Other possible uses include car radiators, milk and food coolers, electronic equipment coolers, dehumidifiers, solar heaters, air conditioners, transformer coolers, condensers, petrol tanks and design-stiffened sheets. Sheets of Noralduct can be formed after manufacture as, for example, are those used in refrigerator evaporator components. Either a plain or an impressed pattern finish is available and colour can be included in the product design as there are no welds to spoil the appearance of an anodized finish. Noralduct is made by superimposing a sheet of Noral alloy, normally Noral 2S (B.S.



7



8

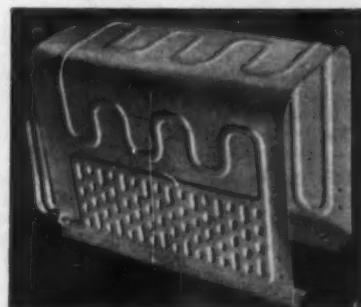
1470 S1C), on another sheet on which a fore-shortened impression of the required tubing pattern has been printed, by a silk-screen process, in a special stop-weld ink, and then pressing these sheets through a rolling mill. The high pressure exerted causes the aluminium to unite in all areas except those that have been inked. Rolling is continued until the final gauge and size have been obtained and the sheet is then held between rigid plain platens and the printed areas are hydraulically inflated, becoming ducts and chambers in solid sheet. Types produced are: (a) standard, (b) flat one side, (c) flat both sides. Panel thicknesses are: (a) 0.060 to 0.080in; (b) 0.060 to 0.100in; (c) 0.090 to 0.125in. Maximum panel sizes are: (a) 30in by 84in; (b) 22in by 72in; (c) 10½in by 40in. Maximum pattern sizes are: (a) 28in by 78in; (b) 20in by 66in; (c) 10in by 40in. Illustration shows a refrigerator evaporator plate made from Noralduct.

Readers' Information Service, Ref. 9. Date 4/2/59.

★

Continuous Burning Open Fire

The latest addition to this company's range of solid fuel burning appliances is the Leander Mk. II continuous burning open fire. It has been specially designed for use in smokeless zones and approved by the Ministry of Power and the Gas Council, be-



9



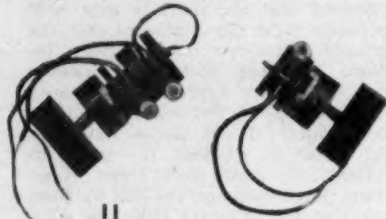
6

D

NEW PRODUCTS (continued)

sides complying with B.S. 2845. The fire will burn continuously for ten hours on any solid fuel, without attention. The Leander is available in 14in, 16in and 18in sizes and can be easily and quickly fitted to existing tiled surrounds. A special feature of the new fire is a two-way trivet which can either be used for boiling kettles, etc., or placed in the safety position to prevent sparks flying out into the room. Fire control is by means of the ashpit door and gas ignition can be fitted to either side. A self-fixing portable version of the Mark II and a boiler flue unit can be obtained in the 16in size only. The Leander Mk. II is finished in vitreous enamel in the following colours—copper lustre, tortoiseshell lustre, black lustre, cream and fawn, two-tone fawn and two-tone russet. Prices: from £3 17s 6d to £5 9s, according to size and finish (two-way trivet, extra). Boiler Flue unit with fire and side bricks, from £7 17s 3d to £8 19s. Self-fixing 16in fire, from £4 5s 6d to £5 5s 6d.

Readers' Information Service, Ref. 10. Date 4/2/59.



11
New Sparkless Switches (11)

A new range of resilient sparkless switches has been produced for use in situations where the atmosphere is polluted and fire and explosion risks are present. The switches, which use no springs at all, consist of a mercury tube mounted on an insulated carrier which is held on a spindle bonded in rubber to an anchor ring. A plate is fitted to this ring and it determines the function of the switch to provide either a latching effect (when used as lighting switches or other applications where a positive "on" position is required) or non-latching when used to replace a push-button control for remote operation. On the latching type, a locking pin engages with a groove to maintain the switch in a closed position. When pressure is applied to the knob, the switch will immediately return to the "off" or "open" position. The locking pin provides the earth contact. These switches can be supplied in dust-proof enclosure heavy-duty boxes with shields and engraved plates. Standard assemblies are available for one- to four-gang units and can be fitted with any combination of one to four sub-assemblies. The mercury switches are suitable for 8A

starting-current and 1A running current on 440V supplies. When used on 250V supplies they are rated at a maximum of 15A. The company makes these switches under licence from I.C.I. Ltd. and illustration shows: (left) double-pole latching type and (right) single-pole non-latching type.

Readers' Information Service, Ref. 11. Date 4/2/59.

★

New Adjustable Diffuser (12)

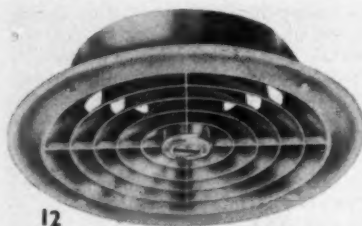
The Neos adjustable diffuser is a completely flush-fitting unit designed for warm-air heating systems and ventilation. It is of anodized aluminium construction and the face of the diffuser embodies a series of frustro-conical rings and concentric with these, annular rings mounted in register. A control screw at the centre of the diffuser is turned by means of a coin slot and this action gives axial movement to the annular rings. This controls the air flow between the two types of rings. Complete shut-off is achieved when the annular rings seat on the faces of the frustro-conical rings. It is claimed that the air stream maintains a forward directional movement up to the instant of complete shut-off and that the incidence of turbulence is reduced to an absolute minimum. When Neos diffusers are used in different locations in a plenum system, they can be set and locked to give accurately-balanced heating and ventilation in all rooms. The unit measures 2in from front to back and has a diameter of 8in at the front. At the rear, it will fit into a 5in bore ducting. A circular fairing is available for use with exposed ducting and special fittings can be supplied for non-circular ducting. It can be fitted in all positions from skirting to ceiling and is suitable for use in hospitals, schools, public buildings, offices and industrial premises. The Neos is available in a range of six colour finishes.

Readers' Information Service, Ref. 12. Date 4/12/59.

★

New Road Gritter (13)

A new road gritter is now being produced which is a completely self-contained unit designed for attachment to any normal tipping lorry. This low cost equipment can be quickly and easily fitted to the lorries and is especially suitable for use during icy weather conditions. A 1 h.p. Villiers air-cooled petrol engine is incorporated which, through the medium of a chain drive to a bevel gearbox, actuates twin-plate spinners operating at a speed of up to 700 r.p.m. The engine speed, which governs a centrifugal clutch, is remotely controlled from within the drivers cabin, so that spreading operations can be applied as required, whether the machine is travelling or stationary. A hand-operated gate con-



trol can be set to provide fine or heavy spread. The unit is fitted with a stout metal cowling to prevent grit being thrown out above spinner height, and will spread a thick carpet of up to 18ft. As soon as de-icing operations have been completed, the gritter can be speedily removed so as to leave the tipping lorry free for normal duty.

Readers' Information Service, Ref. 13. Date 4/2/59.

★

New Strong Hardboard

This company is now producing a 3/4-in thick hardboard which is stated to possess great structural strength and load-bearing properties. The new board is suitable for shelving, heavy-duty partitioning, sliding doors and as a cheap and easy flooring material for lofts. Other uses include bath panels, concrete form lining, sheeting of outbuildings and sheeting under copper and other roof covers. In the furniture industry it can be used for small table tops and as a backing for wardrobes or kitchen fittings. When fixed at 24-in centres, it is claimed to be as strong as the studding behind it and at the usual hardboard centres of 12in and 16in it has a respective breaking load of 460lb and 320lb. The hardboard is made in both standard and oil-tempered grades and is available in 2ft widths by 4ft, 6ft or 9ft long and 2ft 6in widths by 8ft long as well as the standard 8ft by 5ft, 6ft by 4ft and 9ft by 4ft sheets. The weight is approximately 11lb 6 1/2oz per sq ft and retail costs can be as low as 8 1/2d per sq ft for the standard grade and 11d per sq ft for the oil-tempered grade.

Readers' Information Service, Ref. 14. Date 4/2/59.



13

CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

4 February 1959

AGGREGATES AND SAND

1½in—all in—ballast	27/-	Yard cube delivered
¾in do. do.	28/6	(in five-yard loads or more)
¾in screened shingle	23/9	
¾in do. do.	24/6	
¾in granite chippings	54/6	
Sharp washed sand	28/-	
Pit sand	25/-	
Building sand	23/9	
Broken brick	21/-	
1½in shingle	22/-	
Cartage of muck	10/-	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	112/-
Do., from 1ton to 5ton 19cwt do.	124/-
Do., Rapid hardening (6ton lots)	122/6
Do. (but 1ton to 5ton 19cwt)	134/6
Cement "Aquacrete" (do.)	156/6
Do., "417" or "Polar" (do.)	156/6
Do., "White" 1ton (lots)	277/6

LIME—	134/6 (1ton loads) deliv'd
Hydrated .. including	132/- (2/3 do.) do.
White Bags	122/- (4/5 do.) do.
	120/- (6 do.) do.

PLASTER—

Keenes, coarse, pink	234/- ton
Do. do. white	239/- do.
Sirapite, do.	175/- do.
Do. finish	183/3 do.
Hardwall, do.	174/- do.
Plaster, coarse, pink	164/6 do.
Do. do. white	174/- do.
¾in Gypsum Plaster Lath ex works (600sq yds)	2/5 sq yd.
¾in Do. do. Wallboard do.	2/8 do.
¾in Jute scrim (100yd roll)	9/4 each
Cow hair (under 3cwt)	109/- cwt

FIRECLAY—

Stourbridge, loose (1ton lots)	196/9 ton delivered
Fire cement	12/3 14lb

BRICKS

BACKING BRICKS (in truck loads)—

Flettons	118/- per 1,000 delivered
Do. Keyed	120/- do.
Do. bullnose	152/6 do.
Blue wirecuts (Net)	542/- do.
White	202/- do.
Southwater engineering (Class A)	400/6 do.
Firebricks—2½in	92/9 per 100 delivered
Do. —3in	111/3 do.

STOCK BRICKS—

Mild stocks	109/- per 1,000 at Works
Second, do.	268/6 do.
First, do.	294/6 do.
Add for delivery—approx. 55/- per 1,000 in lorry loads.	

FACINGS (ex truck or lorry)—

Rustics	150/- per 1,000 delivered
White	220/- do.
Blue pressed, 2½in (Net)	604/- do.
Do. bullnose	618/- do.
Reds (Multi sand faced)	370/- do.
White glazed stretchers	1696/- do.
Do. headers	1670/- do.
Do. bullnose	2120/- do.
Do. double stretchers	2053/- do.
Do. double headers	2173/- do.
Breeze fixing bricks	30/3 per 100
Fire tile and lumps	40/- ft cube
Wall ties—8in by ½in by ½in, galvanised	83/9 per cwt
Cement mortar (1 : 3) hand-made	93/6 yd cube

BRICKLAYERS' SUNDRIES—

AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta do.	1/2	2/4	5/7	11/1
Chimney pots, Terra Cotta (11 to 24) do.	1ft 8/7	2ft 14/11	3ft 34/1	4ft 58/11

PARTITIONS—

18in by 9in Blocks keyed for plastering			
Per yd super in 6ton lots	2in	2½in	3in
In solid clinker including any half blocks	3/9	4/4	5/3
In cellular clinker blocks	3/11	4/7	5/3
In hollow clay blocks	4/5	4/8	5/5

Clinker blocks in small quantity .. 6/- 6/11 8/4
Intermediate quantities in all types may be had at intermediate prices.

Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS—

Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow, 6in deep	69/6	86/6	96/-
Belfast, plain edge, 10in deep	82/6	137/6	185/6

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—

	Foot lineal	Each
	Straight	Bends
9in diameter	4/8	14/-
10in do.	5/8	17/-
12in do.	10/9	32/9
9in diameter, beaded end, 12in high		6/3

FLUE PIPES AND FITTINGS—

	4in	5in	6in
Heavy asbestos type, 6ft length	18/6	25/6	32/6
Do. 3ft length	9/3	12/9	16/3
Do. bends	7/2	9/-	10/8
Light asbestos type, 6ft lengths	16/-	20/-	25/6
Do. 3ft length	8/-	10/-	12/9
Bends	5/7	7/1	8/8
Baffler	15/5	18/4	19/4

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

	4in	6in	9in
ORDINARY TYPE—Each			
Pipes in 2ft lengths	3/4	5/-	9/-
Bends	5/-	7/6	20/3
Junctions (4in on 4in, 6in on 6in, 9in on 9in)	8/4	12/6	27/-
Gullies with 4in outlets	12/6	13/9	22/6
4in horizontal inlets	4/-	4/-	4/-
4in vertical do.	6/-	6/-	6/-
Black iron grids	1/6	2/10	5/6

Adjustment to Current Cost

2ton lots or more Less than 2ton lots

2in to 9in diameter "Best" pipes and fittings. 50 pieces or more Under 50 pieces
Percentages to add .. -22½% -24½% NET
Further percentages to be independently added in respect of:
British Standard pipes, etc., 10. "Best" Tested pipes, 37½
British Standard Tested, 47½.

IRON DRAINAGE GOODS—

Each	4in	6in
Cast iron pipes, 9ft long	84/6	123/9
Do. 6ft do.	60/4	92/10
Do. 4ft do.	46/1	71/2
Do. 2ft do.	28/-	42/2
Short bend	19/-	30/7
Junction	33/8	70/6

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued

GULLEY PARTS—	4in	6in
Traps, high level, invert	33/8	91/4 each
Inlet, bellmouth pattern	17/8	35/7 do.
Do. with one vertical branch ..	31/-	58/2 do.
Do. with two do.	84/-	122/3 do.
Extra for sealed cover	10/8	13/10 do.

RAINWATER SHOES—	4in	6in
With vertical inlet and rebated top ..	44/1	87/9 each
Extension piece	19/4	23/3 do.
Flat loose coated grating	4/7	4/7 do.
Loose solid coated cover	6/2	6/2 do.

MANHOLE CHANNELS, WHITE GLAZED—	4in	6in	9in
Each	16/6	24/2	40/9
Straight, 2ft long	27/6	27/6	41/9
Taper, do.	32/-	46/3	76/-
Bends, main, half section	19/10	27/6	—
Do., branch, do.	27/6	44/-	—
Do., do. three quarters, do. ..	26/5	46/3	—
Junctions, single	36/3	62/9	—
Do., double	—	—	—

BROWN GLAZED CHANNELS—	4in	6in	9in
Based on standard list (less than 100 pieces)			
Half-round main channel (2ft long) ..	2/8½	4/-½	7/4
Extra for step ends	2/8½	4/-½	7/4
Extra for outlets	5/4½	8/-½	—
Channel bends with splayed ends ..	8/-½	12/1½	—
Three-quarter section do.	10/9	16/1½	—

MANHOLE COVERS—	Black
24 by 18in foot traffic	29/3 each
Do. Strong do.	53/9 do.
Do. Light car traffic	95/3 do.
Do. Road traffic	119/3 do.

SUNDRIES—	Galvanized
Manhole steps	9/3 each
4in Mica valve fresh air inlets ..	16/- do.
Plumber's hemp	9/- per lb
Gaskin, caulking	1/5½ do.
Canvas backed hair felt, 4in wide ..	9d per ft run

ROOFING MATERIALS

WELSH SLATES (delivered)—	Quantity	Full Loads	500 to 599	1 to 49
Sizes in inches	per 1,000	per 100	per doz	
22 by 11	2246/-	265/-	39/-	
20 by 10	2021/6	237/6	35/-	
18 by 10	1413/-	164/6	24/3	
16 by 10	1120/-	131/-	19/3	
14 by 9 Damp Course	668/-	70/9	10/6	
14 by 4½	328/-	31/-	4/9	

TILES (Brosley and Staffordshire)—	per 1,000	per 100
10½in by 6½in Machine made, 6 ton lots	302/6	44/9
Do., hand made, sand faced (Berks)	315/-	50/-
Hips, valleys and angles	36/3 per dozen	—
Plain concrete tiles	210/6	25/6

Sheeting asbestos corrugated, 6in pitch	8/3½ yd super
4½in by 16 gauge, drive screws (galvanized)	17/9 gross
7½in by ½ hook bolts and nuts (do.)	57/9 do.
Washers, round, flat galvanized ..	4/3 do.
Do. do. bituminous	2/- do.

ROOFING FELT—	1/1 yd super
Sanded bitumen felt (44lb)	1/7 do.
Do., but 60lb in weight	2/11 do.
Inodorous felt, best quality	2/3 do.
Do., second quality	1/8 do.
Underlining	1/8 do.
Sheathing	2/4 lb
Galvanized felting nails	—

THERMAL INSULATION—

½in Insulating Gypsum Baseboard (600sq yds)	3/- sq yd
½in Do. Do. Lath do.	3/- do.
½in Do. Do. Wallboard do.	3/3 do.
½in Asbestos (Fully-compressed) Sheet	8/4 do.
½in Insulating Cork Slabs	7/6 do.
Silicate Cotton (2ton lots)	1/6 ft cube

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.	
Monks Park 9/7	St. Aldhelm 10/10
Portland brown Whitbed 9/2	
Douling 10/2	Beer 9/-

TIMBER

Softwood—sawn—random lengths.	Per standard	Per cubic ft
Carcassing quality	£105	12/8
Joinery quality	£125 and up	13/4
Plain edged unsorting flooring ½in 1in	14½in 1½in	165/-
per square	90/- 110/-	138/-
½in Hardboard 5/8 sq yd.		
Larger quantities cost less, and smaller quantities more.		

SUNDRIES—	Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each	½in	10d	1/2	1/5
Sashline, hemp, good quality	½in	1/3	1/8	2/1
Per yd Run	½in	1/9	2/4	3/-
Floor brads	No. 6	No. 8	No. 10	
Cut Clasp Nails	10d	1/1½	1/5	
Steel ordinary screws 1in No. 8 3/8	2in No. 8	6/3	per gross	
Brass, do. Do. 9/5	Do.	16/7		

HARDWOOD. Normal joinery quality.

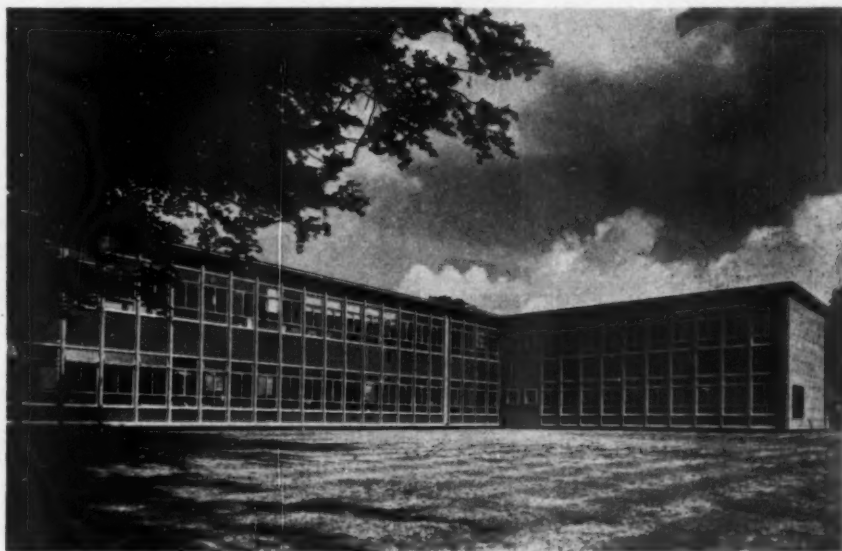
	Per ft cube
Mahogany, African .. Square edge	30/-
do. Honduras .. do.	66/-
Teak, Burma and Siam .. do.	78/-
Walnut, Australian .. do.	84/-
Oak, English .. Sawn Logs	42/-
do. Yugoslavian .. do.	47/6
Walnut, African .. do.	25/-

BUILDING BOARDS

Description	Rate	Unit
16mm Birch blockboard	202/-	Per 100ft
22mm do. do.	242/-	
Austrian Mahogany faced one side, blockboard 18mm thick	348/-	super,
Austrian figured Oak faced one side, blockboard 19mm thick	407/-	but
Beech, 6mm plywood	108/-	from one board
Birch, do. do.	83/-	
Do. 9mm do. do.	120/-	up to
Teak faced one side, plywood 6mm thick	374/-	a
Austrian figured Oak one side, 6mm	229/-	bundle
Australian do. Walnut do. do. ½in	212/-	

IRONMONGERY

	2in	3in	4in	5in	6in
Cast iron Butts, per pair	1/3½	2/3	3/5	6/5	9/2
Hinges, spring, single action regulating, japanned, each ..	—	8/3	12/9	16/9	22/3
Do. but double action spring only, each ..	—	17/6	22/3	28/-	35/9
Do. blank only, each ..	—	10/3	14/-	21/-	24/3



THE BUTTERLEY CO. LTD, NEAR DERBY
G. Alan Burnett, A.R.I.B.A., A.M.I.Struct.E., Dip. Arch. (Leeds), Chartered Arch. & Surveyor


HOPE'S WINDOW WALL

with pressed metal framework

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners Street, London, W.1

Local Office: Provincial House, Albion Street, Leeds, 1

MEMBER OF THE METAL  WINDOW ASSOCIATION

When specifying **NATURAL ROCK MASTIC**


ASPHALTE

**Certificate of Origin
OF
NATURAL ROCK
MASTIC ASPHALTE**

This Certificate is issued to _____
of _____
in respect of (_____) of NATURAL ROCK MASTIC
ASPHALTE purchased from us by the _____ mentioned for use at _____

_____ rock asphalt has been imported by us from
(an) asphalt mine(s) and
conforms to the requirements of British Standards.

ROCK MASTIC ASPHALTE has been manu-
factured from this (these) _____ in a Works inspected by the British
Standards Institution to ensure that the production of mastic asphalt
complies with British Standards, and all blocks of this mastic asphalt
will accordingly be marked with the following:

- (a) The B.S.I.'s 'Kite' brand certification mark 
- (b) The B.S. No. _____
- (c) The manufacturer's trade-mark.

For and on behalf of _____

Date _____

*Attention is invited to particulars of appointment covering capacities given overleaf

THE TERMS OF THIS CERTIFICATE OF ORIGIN
HAVE BEEN APPROVED BY THE BRITISH STANDARDS INSTITUTION
AND BY THE NATURAL ASPHALTE MINE-OWNERS AND MANUFACTURERS COUNCIL

P.3.0.

insist upon a **CERTIFICATE OF ORIGIN**

OF THE ROCK asphalt to be used in the manufac-
ture of mastic asphalt.

The terms of the certificate have been approved
by the British Standards Institution and by the
Natural Asphalt Mineowners and Manufacturers
Council, and is issued by the rock mastic asphalt
manufacturing members of the Council.



Specimens of the certificate and technical literature are available from

**THE NATURAL ASPHALTE MINEOWNERS
& MANUFACTURERS COUNCIL**

94-98 PETTY FRANCE,
LONDON S.W.1.
TEL. ABBEY 1010.

CURRENT MARKET PRICES (Continued)

IRONMONGERY—Continued					
	12in	18in	24in	30in	36in
Tee hinges (japanned)					
per pair	2/-	3/10	—	—	—
Do., but stronger, per pair	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair	—	—	13/4	16/3	24/10
BOLTS—each—	3in	4in	6in	8in	10in 12in
Cabinet, barrel, straight or necked	1/6	1/8	2/3	—	—
Square spring, with brass knob	1/4	1/6	1/11	—	—
Tower bolts	—	1/10	2/8	3/6	4/5 5/2
Barrel bolts	—	2/9	4/-	5/2	6/8 8/1
Add to Tower or Barrel bolts if necked	1d	1d	1d	1d	1d
LOCKS—each—					
Rim lock, 2 lever, wrote case, brass bolt and bushing	12/9				
Mortice lock, 2 lever, bushed	12/9				
Cylinder latches, japanned case	..	..	..	..	16/-
Brass sash fastener	..	..	..	..	each 5/-
Casement fasteners (malleable)	..	..	..	..	do. 1/6
Do. stays (do.)	..	..	..	..	do. 2/-
Axle pulleys (brass face, iron wheel)	1 1/2in	..	..	..	do. 3/8
Do. as last, but with brass wheel	1 1/2in	..	..	..	do. 6/3
Sash line, No. 8 Anchor, yellow label	..	..	..	..	per yard 1/-

METAL GOODS

British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in)	£43/10/0 per ton
---	------------------

Extra cost over basis for following sections—

9in or 18in by 7in, 14in by 5 1/2in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6 1/2in, 20in by 7 1/2in, 10in or 12in or 14in or 18in by 8in	10/- per ton
5in by 4 1/2in, 7in by 3 1/2in, 13in by 5in	15/- do.
12in by 5in, 22in by 7in	20/- do.
6in by 4 1/2in, 7in or 8in or 9in by 4in, 10in by 5in	25/- do.
4in by 3in, 10in by 4 1/2in	30/- do.
5in by 2 1/2in, 5in by 3in	35/- do.
6in by 3in, 24in by 7 1/2in	40/- do.
3in by 3in	50/- do.
4 1/2in by 1 1/2in	65/- do.
3in by 1 1/2in, 4in by 1 1/2in	70/- do.
1in mild steel reinforcing rods ex mill d/d	£41/9/0 do.

Extras per ton

1/2in or 1in diameter in size	15/- per ton
1in	30/- do.
1 1/2in	62/6 do.
2in	92/6 do.
2 1/2in	132/6 do.
3in	172/6 do.

Extras for length

5ft to 3ft	7/6 do.
3ft to 2ft	15/- do.
2ft	22/6 do.
40ft to 45ft	15/- do.
45ft to 50ft	22/5 do.
Bolt and Nuts	112/- per cwt

Trench covering, including trays 1 1/2in deep and rebated frames, 9in wide	25/- foot run
Do., but 12in wide	27/- do.
Do., but 14in wide	30/- do.
Do., but 18in wide	39/- do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows	33/- ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations	54/- do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base	55/- each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.

	36	42	48	60	72
Height in inches—					
10 1/2in wire gauge	118/3	137/9	157/6	197/3	236/6
12 1/2 do.	82/3	96/-	109/9	137/3	164/6
14 1/2 do.	57/6	67/3	76/6	96/-	115/-

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key..	9in by 9in	12in by 9in	14in by 12in
	21/6	31/3	54/-

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete	18/6 ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete	16/6 do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and 1/2in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.

	Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights	£35 5	£50 10	£69 10	
Lanterns	£55	£76 5	£110	

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE	£ s. d.
20 gallons per hour	
15in wide, 23in high	Enamel finish .. 11 10 0
25 gallons per hour	
17in wide, 26in high	Do. Grey Mottle .. 20 10 0
	Do. Cream Mottle .. 22 0 0
40 Gallons per hour	
22in wide, 30in high	Do. Cream Mottle .. 38 0 0

GAS, WATER AND STEAM TUBES

BASIC PRICES

Internal	1/2in &	3/4in	1in	1 1/4in	1 1/2in	2in
Diameter—	1/2in	3/4in	1in	1 1/4in	1 1/2in	2in
Tubes per ft	9 1/2d	10d	1/-	1 1/2d	1/9	2/3
Bends each	1/7	1/9	2/-	2/6	3/8	5/5
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/-	4/4
Do., round do.	1/10	2/-	2/4	2/10	3/4	4/8
Tees	2/-	2/2	2/6	3/2	3/8	5/-
Crosses	4/4	4/8	5/6	6/6	8/2	11/-
Backnuts	4d	4d	6d	7d	10d	1/-
Sockets	6d	6d	8d	10d	1/-	1/4
Sockets						2/6
dimin.	8d	10d	1/-	1/2	1/6	2/-

EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red)—25%	Heavy —15%
Black	Galvanized
Heavy —10%	Heavy —2 1/2%

FITTINGS—

RAINWATER GOODS (Painted or Unpainted)

In consignments of 5cwt and over

From Standard List

Pipe:	2in	3in	4in	5in	6in
6ft lengths	12/10	14/5	18/11	24/8	31/6
3ft do.	7/-	7/9	10/-	13/1	16/6
Shoe, ordinary	2/7	3/10	5/7	9/5	12/11
Bend	3/1	4/4	6/4	11/3	14/7
Branch, single	4/6	6/7	9/3	14/7	22/6
Offset, 4 1/2in	3/9	5/3	7/9	12/11	17/-
Do. 9in	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length	—	6/-	8/5	10/4	13/10
Angle or nozzle	—	2/6	3/1	3/9	5/4
Stop end	—	9d	1/1	1/6	1/9
					Above plus 2 1/4%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—

Metal lathing (½ in by 24G) (20 yards) ..	4/-	sq yard
Plaster baseboard ½ in (1,200 yards) ex works ..	2/4	do.
Lath nails, galvanized ..	1/11	lb
White glazed tiles (6 in by 6 in by ½ in) } small quantity {	25/3	sq yard
Do. rounded on one edge ..	30/6	do.
Do. on two adjoining edges ..	33/9	do.

PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots) ..	110/3	per cwt
Lead water pipe in coils (do.) ..	112/3	do.
Plumber's solder ..	3/6	lb
Copper tacks ..	6/-	do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
½ in Medium pipe, 6ft length ..	14/6	17/2	19/3	21/11
Do., 4ft length ..	10/5	12/2	13/7	15/5
Bends ..	5/4	6/6	8/1	9/1
Do., with oval door ..	17/4	18/6	21/1	24/7
Junction, single ..	6/6	9/8	11/3	13/3
Do., with oval door ..	18/6	21/8	24/3	26/3
Swan necks, 4½ in ..	6/6	10/3	11/9	13/9
Do., 9in ..	8/8	11/9	13/9	16/1
Holderbat, 2½ in projection ..	5/9	5/11	6/3	6/4

Above plus 22%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—(Less than three)

each	gallons			
	Nominal capacity			
	100	150	200	300
Bends over tops and corner plates. Riveted or welded				
14 gauge ..	150/-	218/-	274/-	387/-
12 gauge ..	182/-	270/-	319/-	429/-
½ in plate ..	270/-	314/-	369/-	501/-

HOT WATER TANKS

Riveted and with hand hole and ring ..	20	25	30	40
12 gauge ..	137/-	140/-	152/-	175/-
½ in plate ..	153/-	156/-	171/-	195/-

HOT WATER CYLINDERS—

Riveted, with handhole and ring ..	20	25	33	39
12 gauge ..	155/-	169/-	188/-	203/-
½ in plate ..	167/-	185/-	207/-	222/-

PLUMBER'S BRASSWORK, etc.

	Each	Each	Each	Each
	½ in	¾ in	1 in	1½ in
Boiler screws, single nut ..	1/6	1/11	3/2½	5/6
Do., double nut ..	2/1	2/8	5/1	7/-
Cap and lining ..	1/1	1/6	1/10	2/-
Plumber's unions ..	2/3	2/10	3/11	6/11
Ball valves, screwed iron ..	13/-	20/1	—	—
Do., fly nut and union ..	14/-	21/7	—	—
Bib valves, crutch top screwed iron ..	8/-	12/-	—	—
Do., but screwed boss ..	9/1	13/7	—	—
Stop valves, screwed iron ..	7/-	9/9	—	—
Do., screwed iron and union ..	8/9	13/-	26/3	—
Do., double union ..	10/-	14/3	28/6	—
Waste, plug chain and stay ..	—	—	8/-	9/-
Caps and screws ..	1½ in 3/-	1½ in 3/10	2 in 5/4	—
Sleeves, long ..	—	—	7/2	10/4
Do., short ..	—	4/-	4/2	8/4
Thimble ..	—	3/9	4/6	9/6
Full way gate valves, hot pressed ..	19/6	27/9	—	—
Lead 7lb P. trap ..	—	1½ in 6/11	1½ in 9/-	2 in 12/8
Do., S. trap ..	—	8/5	11/1	15/7
Lead 6lb P. traps with 3in seal ..	—	7/8	9/3	—
Do., but S. traps, do. ..	—	9/6	11/7	—
Wire balloon guards, copper, 2in, 3/3; 4in 3/6	—	—	—	—
Do., galvanized iron, 2in 1/11; 4in 2/1	—	—	—	—
Hair felt 3½ in by 30in, 24oz, 6/- sheet	—	—	—	—
Boss white jointing compound, 2/3lb	—	—	—	—
Gasket 1/10½ lb. Hemp, 9/-lb.	—	—	—	—

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard). Outside diameter	Gauge	Weight lb per ft	3cwt lots Price per lb pence	Price per ft pence
½ in	0.596	19	0.27	24½	11.41
¾ in	0.846	19	0.39	40½	15.80
1 in	1.112	18	0.62	39	24.18
1½ in	1.362	18	0.76	38½	29.17
2 in	1.612	18	0.91	38½	34.93
2½ in	2.128	17	1.40	40	56.00

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

Each	½ in	¾ in	1 in	1½ in	2 in
Straight ..	1/11	2/8½	4/3	5/7	7/6
Elbow ..	3/10	4/9½	6/4	8/1	12/10
Tees ..	4/7½	5/5	8/7½	12/8	18/-
Brackets (Brass) ..	2/-	2/4	2/7	—	—

GLASS

English, flat drawn sheet glass cut to sizes in squares	Per foot superficial
24oz	26oz
10½d	1/0½
11½d	1/4d
Figured rolled, white cut to sizes, in squares (½ in) } Group 1	11½d
Do. } Group 2	1/3½
Ditto, but in standard tints ..	1/10
½ in Rolled, cut to size, in squares ..	11½d
½ in rough cast do. ..	1/3½
½ in do. wired do. ..	1/7½
Georgian wired do. ..	1/7½
Fluted (No. 4) do. ..	1/8½
Reeded (narrow, broad, cross and major) do. ..	1/4½
¾ in Reedite (narrow and broad) do. ..	1/4½
Spotlite do. ..	1/4½
¾ in Calorex Cast do. ..	1/8
Flashed Opal (15/18oz) up to 1ft super ..	4/2
do. over 1ft super ..	5/-
Pot Opal (15/18oz) up to 1ft super ..	4/2
do. over 1ft super ..	5/-

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance ½ in and ¾ in thick.

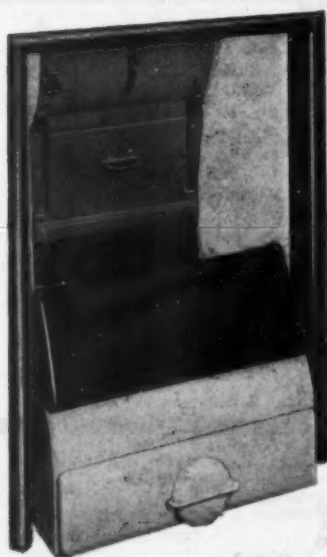
Per Superficial ft	General Glazing
In plates not exceeding:	
2ft super in each ..	4/3
5ft do. ..	5/3
45ft do. (unless extra sizes) ..	6/3
100ft do. (do.) ..	6/9
Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.	

DECORATING MATERIAL

	Price	Unit
Aluminium Paint ..	36/-	Gallon
Distemper, ceiling ..	35/-	Cwt
Distemper, washable ..	120/-	do.
Enamel ..	60/-	Gallon
Gold Metallic Paint ..	79/-	do.
Heat Resisting Paint ..	50/-	do.
Japan, black ..	35/-	do.
Knotting ..	50/-	do.
Linseed Oil ..	17/-	do.
Boiled, do. ..	17/9	do.
Proprietary Paints (good class)—		
Finishing ..	57/6	do.
Priming ..	62/-	do.
Undercoat ..	57/-	do.
Paperhanger's Paste ..	36/6	Cwt
Petrifying liquid ..	9/-	Gallon
Putty ..	54/-	Cwt
Size ..	12/3	Firkin
Terebinte ..	37/-	Gallon
Turpentine substitute ..	6/5	do.
Varnish, oak, copal inside use ..	45/-	do.
Do., do., outside use ..	45/-	do.
Do., white, eggshell, flat ..	50/-	do.
White lead mixed paint ..	66/6	do.
White lead ..	167/6	Cwt
Whiting ..	13/3	do.

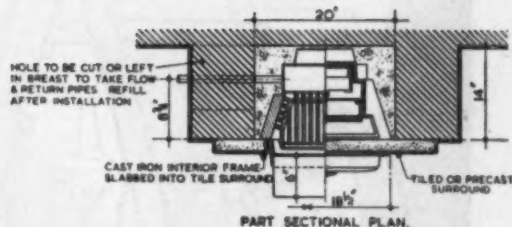
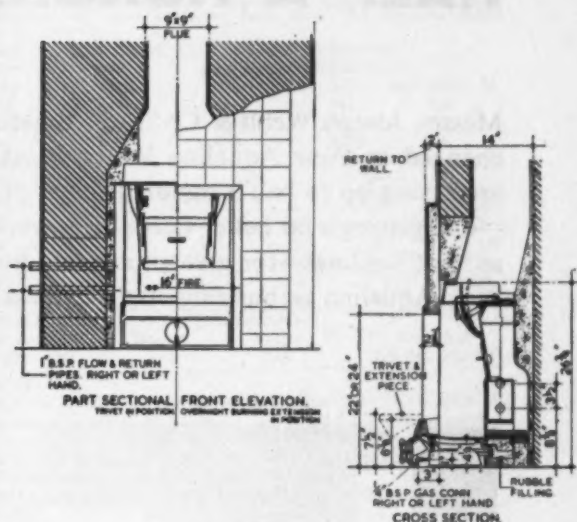


A good looking fire that keeps costs down-**LOWBURN**



The Lowburn with boiler is fitted with an extension piece for overnight burning, which is also a useful safety device when the room is unoccupied, and can be used as a trivet.

Non-boiler models have a curved extension piece 2½" high.



...with a special low front

Advanced design and a shallow front give the Lowburn Fire a very high radiant output, at a low level. This makes it much more effective than other fires of its type.

up-to-date appearance The Lowburn is streamlined to modern tastes, and available in a choice of seven attractive colours.

all-round economy The Lowburn is most economical to buy, install and run. The low front allows a warm fire from the bare minimum of fuel.

on most fuels The Lowburn will burn most types of fuel, including coke and all the smokeless varieties. Smokeless zones are no problem with a Lowburn.

convenience The Lowburn is a continuous burning fire—10 hours without attention—has efficient spin-wheel air control, and can be fitted with gas ignition.

AND OPTIONAL BOILER with self-contained flue set

The Lowburn is available with a back-boiler, which will provide ample hot water for the average household, or heat up to 45 sq. ft. of radiation surface. The boiler has an entirely self-contained flue set, complete with restrictable throat, to cut down room draughts, and save fuel.

Models available

- 16" fire with boiler, to heat 1,750 cu. ft.
- 16" fire without boiler, to heat 1,750 cu. ft.
- 18" fire without boiler, to heat 2,000 cu. ft.

The high performance and low costs of a Lowburn, give it a special application in Housing Estate Schemes.

For full details of the Lowburn Fire, write to the Housing Division of:

ALLIED IRONFOUNDERS LTD

Makers of cookers, boilers, fires, stoves and baths.

28 Brook Street, London, W.1



HALF A HUNDREDWEIGHT SAVING

... plus a superior finish!

Messrs. Joseph Webb & Co. Ltd., Building Contractors of Coseley, changed to *New Aqualine Water Paint*. Now they find that they are saving up to half a hundredweight of material per pair of houses—and getting a far better finish. For work on difficult surfaces—such as “hot” ceilings—for greater covering power and ease of application *New Aqualine* is building itself quite a reputation.

a **MANDERS** case history



NOT AFFECTED BY FROST! *New Aqualine Water Paint* will withstand up to 12 degrees F. (20 degrees frost), and quickly regains peak perfection if the frozen keg is placed in warm water or a warm room.

Use
New AQUALINE
and cut site losses!

Ask for further information on this superb Water Paint to be sent to you immediately.

NEW AQUALINE

... proved the best

MANDER BROTHERS LTD • DEPT. P2 • WOLVERHAMPTON • Tel. WOLVERHAMPTON 20601

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to February 4, 1959.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:	
The new buildings of ordinary construction not exceeding 5,000 cubic feet	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add	4/-
Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight	3d
ALTERATIONS AND ADDITIONS	
Up to £100 cost	£3
Over £100 up to £1,000—	15/-
Over £1,000 up to £5,000—	5/-
Over £5,000	3/-
Public buildings add 50%	
Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.	

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.	
Allow for Fire Insurance	1/6%
Allow for Water for use on the works and apparatus	5/-
Allow for hoarding, or similar licences in City of London say £10 Do. under Borough Councils per each month	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week say 30/-	

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders Turnover per Annum see appropriate column hereunder:	
	Turnover in Thousands
Place	25
At depot	13%
On job	6%
	50
	75
	100
	7%
	4%

SPOT ITEMS AND DEMOLITION, ETC.

Hoarding erected and removed	Per ft run
Planked gangway with handrail, etc.	20/-
Proper gantry do.	10/-
Sleeper roadways	78/-
Needling, strutting and shoring including all labours and use and waste in erection and removal	16/6
	20/-

ALTERATION-DEMOLITION—	1	1½	2	Per yard cube
	Brick	Brick	Brick	
Cutting out cement concrete or brickwork in small quantities	1/3	2/6	3/7	64/-
Do. if either in very small quantities or reinforced	2/2	4/1	6/-	95/-
Debris into baskets and removed from inside to outside of bldg.	3½d	7d	9d	14/-

SCAFFOLDING (Avg. 45ft high)	
Per yard superficial	1 month
Putlog type—4ft 6in lift	7/2
Do. —6ft 0in do.	5/1
Independent type—4ft 6in lift	9/5
Do. —6ft 0in do.	6/7
	Period
	3 months
	5 months
	12/5
	9/5
	17/2
	11/10

EXCAVATION	Common	Loamy	Gravel	Rock or
	Soil	Clay	or Clay	similar
Per Yard Cube By hand	7/-	8/4	9/9	64/3
Reducing levels				
Surface trench not exceeding 5ft deep	14/1	16/10	22/5	79/10
Do. from 5ft to 10ft	25/9	28/11	34/7	87/2
Do. from 10ft to 15ft	29/3	34/10	40/11	95/4
Fill in and ram	5/9	6/4	6/4	6/2
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT	
To trenches, in normal ground	To 5ft deep
Per Ft Super	5 to 10ft deep
	10 to 15ft deep
	7d
	8½d
	10d

CONCRETE 1½in Ballast Aggregate	
1 : 3 : 6 Cement concrete in foundations	Per yard cube
Do. around grillages	81/-
	85/-

REINFORCED CONCRETE

1 : 2 : 4—½in concrete, worked around reinforcement, between formwork in the following (at various levels):—Per cubic yard	
Foundations and surface beds	89/9
Walls, 12in thick or more	96/-

Sectional	Lintols and	Columns and	Braces and	
inches	beams	casings	projections	
Up to 36	4/10	5/-	5/2	Per cubic ft
36 to 72	4/9	4/11	5/1	do.
72 to 144	4/8	4/10	5/-	do.
over 144	4/6	4/8	4/10	do.
Walls 6in thick				19/7 Per super yd
Do. 9in thick				28/10 do.
Suspended floors average 6in thick				19/6 do.

REINFORCING RODS (round) bent and placed. (Ex Mills)—	
Per cwt	4in
In floors and beams	92/-
In walls	98/-
In columns	105/6
	8in
	10in
	11in
	12in
	13in
	14in
	15in
	16in
	17in
	18in
	19in
	20in
	21in
	22in
	23in
	24in
	25in
	26in
	27in
	28in
	29in
	30in
	31in
	32in
	33in
	34in
	35in
	36in
	37in
	38in
	39in
	40in
	41in
	42in
	43in
	44in
	45in
	46in
	47in
	48in
	49in
	50in
	51in
	52in
	53in
	54in
	55in
	56in
	57in
	58in
	59in
	60in
	61in
	62in
	63in
	64in
	65in
	66in
	67in
	68in
	69in
	70in
	71in
	72in
	73in
	74in
	75in
	76in
	77in
	78in
	79in
	80in
	81in
	82in
	83in
	84in
	85in
	86in
	87in
	88in
	89in
	90in
	91in
	92in
	93in
	94in
	95in
	96in
	97in
	98in
	99in
	100in

FORMWORK and Supports (4 times use)—	
Floor soffits	Beams
20/3 per yard	3/-
	2/8
	2/8 per super ft

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)—	
Flettons or other similar at 118/- per 1,000	42/-
Mild Stocks or do., at 245/- per 1,000	57/9
Second Stocks or do., at 323/- per 1,000	66/-
Southwater engineering or similar bricks, at 400/6 per 1,000	78/-
Blue Staffordshire wire cut at 542/6 per 1,000	94/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2d
Add if brickwork commences above ground level	4/9
Do. if in backing to masonry including cutting and waste for bonding	3/10
Do. if circular-on-plan	9/-
Do. if in underpinning	9/-

BRICKWORK IN THICKNESS NOT REDUCED—

Per yard superficial	Brick, on edge	Half-Brick	1 Brick finished	1lin Hollow with 2in cavity and G.I. TIES
	18/3	23/4	43/1	49/3
In Flettons or similar	31/-	41/-	73/-	72/-
In second stocks or do.				
Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ½ brick	57/-	72/-		Per yd super do.
Do. all as last but an average total thickness of 1½ bricks	78/-	102/6		

WALLS BUILT IN SUPERIOR BRICKS—

In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—	
In first quality Stocks at 349/-	44/-
In red facings at 330/-	38/6
In blue pressed facings at 604/-	60/-
	73/-
	67/9
	104/9
	Per yd super do.

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old	5/9 pe: ft
Damp proof course, double slate, horizontal	4/9 super
Do., as last, but vertical	5/9 do.
Do., bitumen, Hessian base, horizontal	1/- do.
Frames, bed and point in cement mortar, one side 4½d per ft run	
Window board of 6in by 6in by ½in rounded on edge	4/3 do.
quarry tiles, bedded, pointed, cut and fitted	9in by 9in
Terra-cotta air bricks built in and pointed, including flue	6/6
Chimney pots, plain red, set and flauched in cement mortar	1ft high
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	17/-
	Up to 5ft super
	5ft to 10ft super
	15/2
	18/9 each
	10ft to 20ft super
	28/5
	47/- each
Leaving holes through walls for pipes and afterwards making good	3d per in in depth
Cutting do., and afterwards do.	11d do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout	1/3 per in in depth, each
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in	1/7 each

MEASURED RATES—Continued**BRICKWORK—Continued****FACING—**

Extra only over common brickwork (118/- per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (150/-)	4/2 per yd super
White (220/-)	9/9 do.
First Stocks (349/-)	21/- do.
Reds (370/-)	20/9 do.
Blue pressed (604/-)	38/3 do.

If built in English bond, Add 12½% to above.

If do., half-brick stretcher bond, Less 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/-	12/-
In red facings	7/5	11/11

Plumbing angles	2d per ft run
Fair cutting	1/- do.
Fair rake cutting	1/7 do.
Fair circular cutting	1/7 do.
Fair squint or birdsmouth	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4in soffits and pointing	ft run
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	ft super
	19/-

PARTITIONS

(over 100 yards)	2in	2½in	3in
Concrete slab partitions in cement mortar	11/5	13/-	15/4
Hollow clay do.	13/5	14/7	16/6
Cutting and bonding at angles, intersections and ends	5d ft run		

PAVING

	1in	1½in	2in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8
1 by 5in skirting, square top and cove bottom	2/10 ft run		
1in by 6in red quarry tile paving	32/- yd super		
1in by 6in do. skirting	1/11 ft run		
Jointless flooring, 1in thick	20/- yd super		

ASPHALT (normal conditions and fair quantity)

1in pitch mastic floor in one coat on felt underlay on prepared concrete base	1450/48	1375/47	
			Brown Red
			14/- 15/9
			Mastic Natural
			B.S.988 Rock
Per yd super	13/-		B.S.S.1162/44
Unit			
1in in two thicknesses on felt underlay on prepared concrete base	yd super	15/-	22/-
Do. in narrow widths	ft super	2/6	3/3
1in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/6	2/9
External angles	each	6d	6d
Internal do.	each	10d	10d
Tanking or Damp Course		B.S.1097/43	B.S.1418/47
Vertical in two thicknesses	yd super	22/6	27/-
1in horizontal do.	yd super	13/6	20/-
Vertical in three thicknesses	yd super	30/-	37/-
1½in horizontal do.	yd super	19/6	29/-
Labour rounded external angle	per ft run	6d	6d
Do. internal angle fillet	per ft run	10d	11d
Do. double do.	per ft run	1/8	1/8
Collars to small pipes	each	3/6	4/-
Do. to large pipes	each	6/6	8/-

DRAINAGE

Per lineal yd	1ft in depth	5/10
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus. In ordinary ground—moderately firm. (By hand)	2 do.	9/11
	3 do.	22/9
	4 do.	29/7
	5 do.	36/6
	6 do.	54/11
	7 do.	67/6
	8 do.	80/-
	9 do.	92/6
	10 do.	104/11
	11 do.	128/1
	12 do.	144/11

Portland cement concrete bed under pipes and both sides—6in thick	(1 : 6) drain up on 18in wide	4in	6in	9in
		8/6	10/-	12/3

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in
"Best"	2ton or more	3/1	4/7	7/7
	50 pieces and over	3/5	5/3	8/6
	under 50 pieces	3/6	5/4	8/10
"Best Tested"	2ton or more	3/9	5/10	9/24
	50 pieces and over	4/2	6/3	10/2
	under 50 pieces	4/3	6/5	10/10
"British Standard"	2ton or more	3/3	4/10	8/-
	50 pieces and over	3/8	5/6	9/-
	under 50 pieces	3/9	5/7	9/4
"British Standard Tested"	2ton or more	3/10	5/9	9/7
	50 pieces and over	4/5	6/8	11/-
	under 50 pieces	4/6	6/9	11/5
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6
Extra for junction "Best"—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/-

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—	Per ft run
In main runs	4in 6in
In branches	14/5 20/2
	16/6 23/4
each	
Extra over last for bends and extra joint	30/2 66/1
Do. on do. for junctions and extra joint	45/4 86/-
Cast-iron gully with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	183/- —
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	85/9 143/6

MANHOLE SUNDRIES—

Salt glazed straight half-round main channels	4in	6in
Do. curved	each 6/-	8/7
Do. three-quarter section splayed channel bends (Barrons or similar)	do. 14/-	20/-
Heavy manhole steps galvanized	do. 18/-	26/6
Fix only manhole covers	do. 9/9	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do. 11/6	—
	do. 41/-	—

ROOFER**CORRUGATED ASBESTOS SHEETS**

P.C. 8/3½ per super yd including side and end laps and fixing to wood	162/6 per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/- per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit

Do. but in one layer only	12/6 } yd
	9/- } super
WELSH SLATING	Per square
3in lap, 2 zinc nails to each slate.	16" + 10" 18" + 10" 20" + 10"
	341/- 356/- 414/-

Additional labours

At tops, verges and abutments—straight	Per ft lineal
Do. —raking	1/9 1/10 2/2
At hips and valleys (each side)	2/7 2/9 3/1
At eaves, double course	3/6 3/8 4/2
Do. to falls	5/3 5/4 6/3

the bricks for the job

SANDLIME BRICKS

FOOTINGS

Sandlime Bricks are available in Special Purpose and other load bearing grades to suit your job; of guaranteed strength and thoroughly durable.

Sandlime Bricks of facing quality (Class A of B.S. 187-1955) give maximum light reflection, are self-cleaning when exposed to rain, and are durable under the most severe conditions.

FACINGS

FEATURES

Sandlime Bricks give new scope and freedom. In addition to the "natural" whites, a wide range of permanent colours is available.

The Sandlime Brick Industry is progressive and utilises continuous research carried out both by individual manufacturers and by the Sandlime Brick Division of the Chalk Lime and Allied Industries Research Association.

SANDLIME BRICKS FOR INDUSTRIAL, DOMESTIC AND AGRICULTURAL BUILDING

*Buy your bricks from members of
The Sandlime Brick Manufacturers Association Ltd., 73/78 High Holborn, London, W.C.1. Telephone HOLborn 5434.
A list of members and technical literature can be obtained from the Secretary.*





B.R.S. Trouble-Free and Noiseless BALL VALVES

TROUBLE-FREE because :-

No working parts of the valve are in water and no sticking can occur as with the old piston type of fitting.

Cavitation of the seatings is greatly reduced if not entirely eliminated, giving the valve a trouble-free long life many times that of an ordinary ball valve.

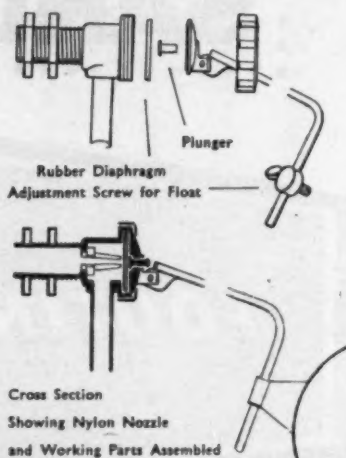
NOISELESS because :-

Water passes into the cistern through a nylon nozzle shaped to minimise disturbance on contact with a rubber diaphragm and then passes into the cistern through a plastic tube thereby avoiding metallic vibration.

A trouble-free ball valve is the urgent need of Water Boards, Household and the Building Industry. Now, the KINGLEY B.R.S. BALL VALVE has been produced to meet this need and has the added advantage of being NOISELESS.

The main features of the KINGLEY B.R.S. BALL VALVE are as illustrated, a nylon nozzle shaped to overcome cavitation and a rubber diaphragm which stops the flow of water when pressed against the nozzle by a plunger. The diaphragm keeps the moving parts of the valve dry and free from corrosion and incrustation. The movement of the plunger is controlled by the usual float on a hinged arm, which at its free end is bent down at a right-angle. By means of a thumbscrew, the float can be fixed on this part of the arm at any height depending on the water level required in the cistern.

For full details and illustrated leaflet write to:—



KINGS LANGLEY ENGINEERING CO. LTD.

KINGS' LANGLEY · HERTS

TELEPHONE : KINGS LANGLEY 2215-6

TELEGRAMS : CHAMPION · KINGS LANGLEY

Let **STONHARD**
solve your industrial
flooring problems!

LAID BY OUR CONTRACTING SECTION OR BY YOURSELVES
UNDER OUR FREE SUPERVISION

*Here's what
The British Thomson-Houston
Company's Rugby Works
Architect
says about
Stonhard
Resurfacer —*

"We have used STONHARD RESURFACER recently on the conversion of one of our buildings; for many years we have used other materials made by you for patch repair work.

"We have found STONHARD RESURFACER excellent for resurfacing badly pitted floors which could not be further overloaded and where the work had to be carried out without seriously disturbing production.

"Its advantages are that it can be laid to a feather-edge; it sustains heavy impacts without cracking, improves under heavy traffic and tends to be dustproof."

For our free brochure write to:—Stonhard Co. Ltd., Berger House, Berkeley Square, London, W.1

MEASURED RATES—continued**FLOORS AND FLATS**

Hollow tile <i>in situ</i> or pre-cast units hoisted, bedded and fixed—			
	Superimposed load in lb per ft super	Span	16ft
Per yd super	50 ..	44/-	52/-
	100 ..	46/3	58/3
	150 ..	53/-	66/6

20lb has been allowed to cover dead load in surface, finish.
Fair edge to slabs 9d per ft run
Splay cutting and waste 1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—			
Labour, materials, waste nails, hoisting and fixing ..	Plates	Joists	Trusses
	19/2	20/8	22/4

FLOORING—	Per square—	1/2in	1in	1 1/2in
Rough boarding		144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings ..		146/6	167/6	206/-
Do. grooved and tongued ..		167/6	189/6	244/-

SKIRTING—	Per ft superficial—	1/2in	1in	1 1/2in
Wrot softwood moulded skirting with grounds and backings plugged ..		3/8	4/3	4/10
Mitres to do. .. 3d per sectional in.				
Fitted ends .. 2d do.				

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/2	5/10
Add if fitted with beads	6d	1/6
Add if hanging on butts	2/6 each	

WINDOWS, hung on lines—

Softwood casement frames, 1in inner and outer linings, 1 1/2in pulley stiles, 2in sashes, oak sill ..				
Overall size of frames—				
Per ft super	6ft	21ft	32ft	44ft
Windows as described	19/6	11/-	8/2	6/5
Add if sashes in squares, about 2ft super in each	—	1/6	2/-	1/11
Extra for hanging sashes with lines, weights and axle pulleys ..	30/3	50/3	62/3	84/3

FINISHINGS TO OPENINGS—

Softwood linings, tongued at angles and tongued to frame including grounds and backings				
Per ft super—	1/2in	1in	1 1/2in	1 1/2in
Add if crosstongued	3/7	4/1	5/-	5/8
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	6d	6d	6d	6d
Add for ends to last notched, returned and rounded	3/6	4/-	4/11	5/5
	1/1	1/2	1/3	1/4

Per ft run—	Sectional area in in—					
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	1	2	3	4	5	6
Add if in short lengths	3 1/2d	6d	8 1/2d	11d	1 1/4	1 3/4
.. if plugged to brickwork	4d	4d	4d	4d	4d	4d
.. if framed as in legs and bearers	3d	3d	4d	4d	6d	6d
.. if rebated or grooved or beaded	1 1/2d	1 1/2d	1 1/2d	1 1/2d	1 1/2d	1 1/2d
.. if chamfered or rounded edges				1 1/2d		
.. if moulded in architraves, capping, etc.				3d		

DOOR FRAMES—

Per sectional in—	6in	8in	12in	13 1/2in
Softwood, wrot, rebated	2/2	2/6	3/2	3/6

DOORS—Per ft super

2in Softwood square 1	Number of panels—				
framed and flat panels, both sides, on butts .. 6/-	2	3	4	5	6
1 1/2in do. .. 5/4	6/10	7/5	8/-	8/4	8/10
Add for each side moulded	6/2	6/7	7/2	7/7	8/1
Add B.S. flush panelled 1/6	3d	4d	5d	6d	7d
	1/6	1/6 1/2	1/7	1/8	1/8

Per ft super—	1/2in	1in	1 1/2in	1 1/2in
In shelves, table tops, wrot and fixed	2/4	2/7	3/-	3/6
Do. in divisions and ends framed ..	2/7	2/10	3/3	3/11
Add if crosstongued	6d	6d	6d	6d
Add if buttoned	6d	6d	6d	6d

SUNDRIES—Per ft run—

	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	6d	4d	2d
Rounded heel or hollow		4d	
Tongued and grooved angle		6d	
Glue blocking		6d	
Mitres	3d	per sectional in	
Fitted ends	2d	do.	

STAIRCASE—

1 1/2in Softwood treads with moulded nosings	Per ft super
1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/1
Do. but in winders	7/6
1 1/2in crosstongued landing on framed carriages	6/3
2in moulded string	5/-
2in do. ramped	12/-
Ends framed to newel	9/10 each
Tongued heading joints	5/6 do.
Ends of treads and risers housed to string ..	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/- do.
Balusters about 2ft 9in long, square and framed each end	1in 1 1/2in 5/6 5/3
3 1/2in by 3 1/2in square newel, framed ..	4/- per ft run
African mahogany moulded 3in by 2in hand-rail, (Joints below)	9/3
Do. ramped 18in girth (do.)	54/- each
Do. wreathed do. (do.)	160/- do.
Joint or framed ends	12/- do.

FIXING ONLY IRONMONGERY

	To deal	To hardboard
Barrel bolts	1/10	2/9 each
Flush bolts	5/6	4/10 do.
Sash fasteners	2/6	3/- do.
Rim locks and furniture	4/6	6/- do.
Mortice locks and do.	7/6	17/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	49/-	63/- do.
Overhead springs	14/7	20/- do.
Springhinges	14/-	19/- do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders	91/6 do.
Do. but in stanchions	93/6 do.
Trusses	130/6 do.
Additional cost per cwt over basic sections for following R.S.J.s	
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6 1/2in, 20in by 7 1/2in ..	8d per cwt
22in by 7in, 1 1/2 cwt 4in by 3in	1/10 do.
5in by 3in, 5in by 2 1/2in	2/24 do.
6in by 3in, 24in by 7 1/2in	2/6 do.
3in by 3in, 2/9 cwt 4 1/2in by 1 1/2in ..	4/- do.
3in by 1 1/2in	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts ..	174/- do.
Forged straps	132/- do.
Wrot iron balustrade	175/- do.

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork ..	2in	3in	4in
Extra for shoes	4/5	4/10	6/2
Do. junctions	5/7	7/2	10/3
Do. bends	8/5	10/9	15/7
	6/7	8/6	10/10

RAINWATER GUTTERS

Per ft run—	4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	3/11	4/8	5/9
Ogee do. All as last	4/4	5/-	6/3
Extra for stop ends	3/2	3/10	4/-
Do. angles or outlets	5/6	7/-	8/4

MEASURED RATES—continued

PLUMBER		Soakers		Flats		Flashings	
EXTERNAL—		149/3		191/6		203/-	
4lb Milled Sheet lead per cwt							
LEAD PIPES: running joints, etc.							
Per ft run		1/2in	1/2in	1in	1 1/2in	1 1/2in	2in
Main	Fixed	4/4	6/1	8/6	10/8	13/6 1/2	18/5
Service	with	3/10 1/2	5/5	7/1	8/8	10/11	14/11
Waste	hooks	2/9	3/10	5/-	7/4	7/11	10/1
Bends	each	—	—	—	1/9	3/-	8/-
Solder joints	do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints	do.	13/9	16/8	20/4	26/-	—	—
Stop valve and do.	do.	27/6	37/6	51/9	82/-	—	—
Bib valve and do.	do.	19/-	26/3	—	—	—	—
Ball valve and do.	do.	26/-	35/6	51/-	78/-	—	—
Sleeve and do.	do.	—	—	—	—	21/-	29/-

COPPER TUBES

		1/2in	1/2in	1in	1 1/2in	1 1/2in	2in
Tubes per ft run		2/9	3/3 1/2	4/3 1/2	5/3	6/7	9/4 1/2
Couplings: straight		—	—	—	—	—	—
each	—	3/7	4/4 1/2	6/7	8/6	11/-	15/-
Do. Elbows each	—	5/8	6/8 1/2	8/10	11/3	16/9	32/4
Do. Tees do.	—	8/3	9/7	13/10	19/-	25/6	32/-
Do. Cisterns do.	—	4/8	6/3	8/4	10/6	14/4	18/11
Stop cocks do.	—	24/4	35/4	63/-	104/6	159/-	240/-

BLACK TUBING (Heavy)		1/2in	1/2in	1in	1 1/2in	1 1/2in	2in
fixed with pipe brackets		—	—	—	—	—	—
Tubes, per ft run		2/4	2/8	3/3	4/1	4/9	6/10
Bends and fix, each	—	5/1	5/10	7/10	10/5	12/1	18/3
Tees and do.	—	5/7	6/7	7/11	10/-	12/1	17/9
Fire bends	—	2/-	2/6	2/9	3/-	4/-	7/3

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance		2in	4in
pieces and molten lead joints	—	5/9	8/4 ft run
Extra only for bends and joint	—	14/9	23/8 each
Do. junctions and joints	—	16/4	29/9 do.
Do. cleaning doors	—	16/-	17/6 do.
Domical wire guards	—	2/6	2/9 do.

PLASTERER—		yd super	
Lime and hair	1/2in	Render and set	6/9
Do.	1 1/2in	Do. float and set	9/8
Sirapite	1/2in	Skimming coat	4/4
Do.	1/2in	Render and set	8/-
Do.	1/2in	Render, float and set	10/7
Portland	1/2in	Backing coat	4/10
Do.	1/2in	Plain face	8/-
Do.	1/2in	Floor screed	4/10
Keenes	1/2in	Skimming coat	5/2
Dubbing	1/2in	Thick or less	2/4
Metal Lathing	1/2in	mesh by 24 Gauge	6/10
6in by 6in by 1/2in Earthenware Plain Glazed Tiles, in fair quantity, white, and setting (on prepared screed)		45/-	—
Rounded edge. Extra over last		6d per ft run	—
Angles in do.		6d each	—
Cutting and fitting. Around pipes or clips		1/6 do.	—
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.		—	—
Do. 6in to 12in do. Add 40 per cent to plain surface.		—	—
Sundry labours per ft lineal:—		—	—
Quirk 3d. Arris 4d. Fair edge 3d. Rounded edge 5d.		—	—
Flush bead 1/9.		—	—
Mouldings—6d per in girth.		—	—
Jointing new plastering to old 3 1/2d.		—	—

POLISHING		Ft super		Sashwork
NEW WORK—		2/9	1/9	—
Staining, bodying-in and French Polish		1/2	9d	—
Staining and wax polishing on hardwood		—	—	—
OLD WORK—		1/2	—	—
Cleaning down old work and repolish		3/-	2/-	—
Stripping, preparing and repolishing		—	—	—

INTERNAL PAINTING

With white lead base in common colours, with brushes.

		Knot stop prime	Prime and paint once	Prime and paint twice	Add for each extra coat
ON WOOD—		2/9 1/2	5/7	8/-	2/2 yd super
General surfaces		—	—	—	—

Running lengths not exceeding 3in wide	3 1/2d	8 1/2d	1/-	3 1/2d	yd run
Do. 3in to 6in wide	5 1/2d	11d	1/4	4 1/2d	do.
Do. 6in to 9in wide	8 1/2d	1/6	2/1	6 1/2d	do.
Do. 9in to 12in wide	11d	1/11	2/7	8 1/2d	do.
Sash square each side	5/5	10/3	14/11	4/1 1/2	per do.
Do. in large squares	8/3	15/7	20/10	6/7	do.
Opening edges	7d	1/2	1/9	7d	each
Casement frames each side	6d	1/-	1/4	5d	yd run
Mullions or transoms do.	8d	1/5	2/-	7d	do.

ON PLASTER—

		One coat	Two coats	Three coats
Paint on surfaces	—	3/-	5/7	9/1
Do. on mouldings	—	3/4	6/3	9/1
Do. on enrichment	—	6/-	11/5	17/-

ON STEEL

Paint on structural steel	2/5	4/7	6/10	do.
Do. on roof trusses	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10 1/2	5/-	6/9	do.
Do. divided into extra large squares	2/5 1/2	4/2	5/10	do.
Do. on opening edges	10d	1/6	2/-	each
Do. on rain water pipe	10d	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3d	6d	10d	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about 1/2in), glazing quality, in the following sizes, glazed complete—Per ft super in plates not exceeding 2ft super in each

5ft	do.	6/10
Do. (unless extra sizes) 45ft	do.	7/11
Do. (unless extra sizes) 100ft	do.	9/-
Do. (unless extra sizes) 100ft	do.	9/7

Add extra price for glazing with screw beads or clips 5d per ft super. Do. if glazing bedded in washleather or velvet 9d per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work:

Ordinary quality clear, glazed to wood with putty:—		—	—
24oz as described	—	—	1/6 1/2
26oz do.	—	—	1/9
32oz do.	—	—	2/1 1/2
1/2 figured rolled, glazed to wood with putty	Group 1	Per ft super	1/7 1/2
Do. in standard tints	Group 2	do.	1/11 1/2
No. 4 Fluted, glazed do.	—	do.	2/7
1/2 in Reeded (narrow, broad, etc.)	—	do.	2/5 1/2
Reedlite do.	—	do.	2/0 1/2
Spotlite do.	—	do.	2/0 1/2
1/2 in Rough cast do.	—	do.	2/0 1/2
1/2 in do. wired do.	—	do.	2/4 1/2
1/2 in Georgian Rough Cast do.	—	do.	2/4 1/2

Add for glazing all as before but to steel to similar work as above, 1 1/2d per superficial ft.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—

		1 coat	2 coats	Add if required
per yd super—		(finish)	(under-coat and finish)	Sealing Stippling
Ordinary distemper on flat surface of plaster	9d	1/4 1/2	6d	3d
Washable do. on do. of plaster	1/-	1/10	6d	3d
Add if in margins, narrow widths or panels	30%	30%	20%	50%
Add if on mouldings	50%	50%	45%	—
Add if on enrichments	160%	160%	115%	—

PAPERHANGING

Hanging only—		Per Piece—Lining	Pattern
On walls	—	7/6	9/-
On stairs	—	10/3	12/-
On ceilings	—	9/-	10/6

Bright idea...

Unilux!



Wherever light is needed — natural, even *daylight* — the brightest idea is to install UNILUX, the finest of all Translucent Sheetings. UNILUX is obtainable in a wide range of attractive colours to suit buildings of all kinds: offices and factories, homes and garages, farms and gardens, shops and

theatres — both indoors and out. UNILUX is durable, shatter-proof and weather-proof, and of the weight necessary for extra strength and rigidity. It is produced in 18 different profiles — and any other can be matched.

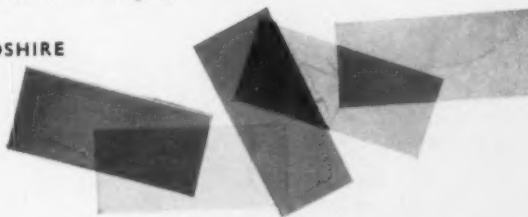
Unilux

TRANSLUCENT SHEETING

★ *Technical Literature on UNILUX will be sent on request.*

U.A.M. PLASTICS LTD · TOLPITS, WATFORD · HERTFORDSHIRE
TELEPHONE: WATFORD 34551

A MEMBER OF THE  GROUP OF COMPANIES



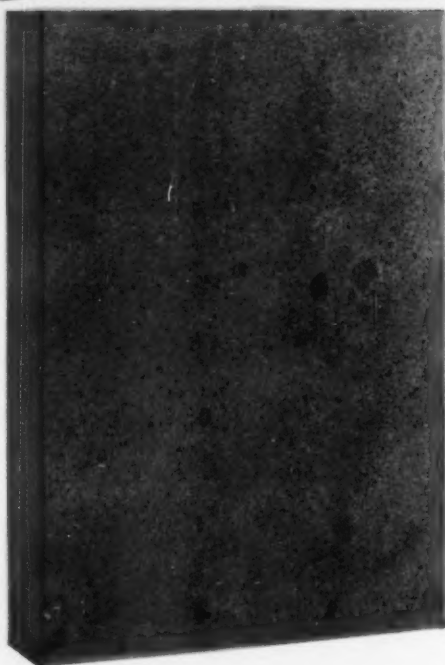
THE BROOKWOOD MEMORIAL



Architect: R. Hobday, A.R.I.B.A.
Senior Architect to the Imperial War Graves Commission

Broughton Moor Light Sea Green Slate

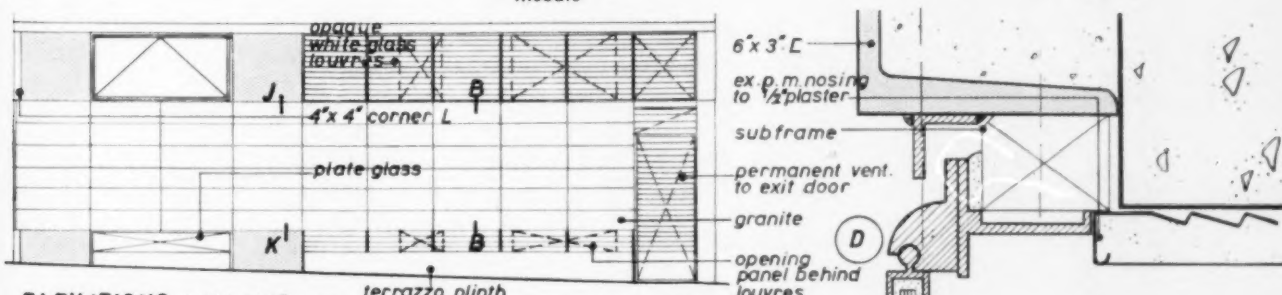
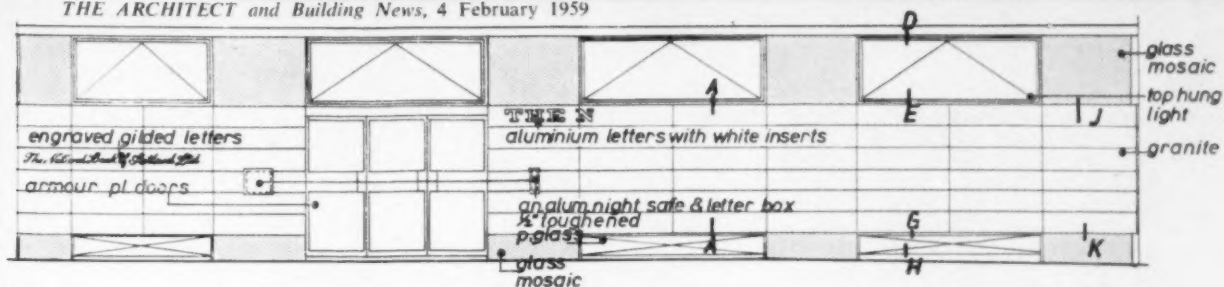
was chosen for its lasting beauty to preserve the names of 3,500 men and women of the Commonwealth who died on active service during the second world war and who have no known graves. Their names are carved in the twenty-eight panels of Broughton Moor Light Sea Green Slate set in the circular columns of the Brookwood Memorial, recently unveiled by the Queen. Chiselled deep into the glassy surface of the highly polished slate, the names are clear and legible. This beautiful green slate from the Lake District, rugged and hard, will defy the tooth of time to preserve the names for centuries to come.



A section of Broughton Moor Slate, showing the highly polished finish. Finely rubbed, naturally riven, sanded and frame sawn finishes are also supplied, and technical pamphlets showing typical methods of fixing are available, as follows: 1. Flooring; 2. Facings; 3. Coping; 4. Cills; 5. Riven Face Slabs.

The BROUGHTON MOOR Green Slate Quarries Ltd

CONISTON · THE LAKE DISTRICT LANCASHIRE · Telephone: Coniston 225



ELEVATIONS 1/8"-1'0"

2½" x 2½" x ¼" L with 3½" x 3½"
x ¼" end plates welded on
bolts _____
fixing insert _____

mock joint

1 1/2" granite

cramp

2 1/2"x2 1/2"x 3/8" L welded to plate

2' 2 1/2" x 3 1/2" x 1/4" plate welded
to both L's

fixing insert & bolts

reinforced concrete column

lightweight block

opaque white glass louvres

SECTIONS

 $3/4'' - 1'$

mosaic tile

alum. 'z' section cover

1½" granite

conc. wall

mastic

screed

mosaic

GRANITE TO MOSAIC 1/2 F.S.

top hung aluminium opening light

$\frac{1}{4}$ " fixing plate welded to ends of L
& bolted to conc.

bronze corbel
2 1/2 x 2 1/4 x 1/8" L welded to plate

$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{8}$ L welded
 to $\frac{3}{4} \times 2\frac{1}{2} \times \frac{1}{4}$ plate
 bronze corbel
 lightweight block
 $1\frac{1}{2}$ " granite
 building line

5'x2 1/2" L
5x5x 1/4" plate welded to ends of L

alum. frame & bead
1/4" toughened glass

strut
-XPM casing bead

-timber fillet

terrazzo on cement rendering

DETAILED SECTION $1\frac{1}{2}$ F.S.



The premises of the National Bank of Scotland, which occupy the ground floor of the Washington Hotel, were designed so that they could be adjusted should this floor be used for any other purpose. The granite facing between the columns, and the light-weight block which backs it, are supported on steel angles so that these can be removed and shop windows fitted. The facing is emerald coal-black granite. The letter-box and night safe are anodised aluminium, as are the push plates to the doors, which have black formica inserts. The terrazzo below the low level windows is black. The rest of the bank is on glazed tessellated tiles. The architects are Bronek Katz and Reginald Vaughan.

Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the

MULLEN AND LUMSDEN LIMITED

Contractors and Joinery
Specialists
**41 EAGLE STREET, HOLBORN
LONDON, W.C.1**
Telephone: CHAncery 7422/3/4
Branches:
5 Coptic Street, W.C.1. Southampton
Tel.: Museum 3705 Tel. No. 73176

**HAVE YOU DECIDED THAT
POLISHED HARDWOOD
IS THE ONLY MATERIAL
FOR YOUR HANDRAILS
YET?**

When you do,
consult the specialists
F. J. LEWIS LTD.

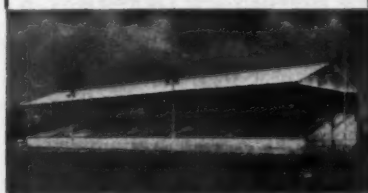
Handrail House, 65 Maygrove Road
Kilburn, London, N.W.6
MAIDA VALE 0871/5



THE MODERN VENETIANS

Full particulars, drawings, etc., from
DANAURA LIMITED
48 Notting Hill Gate, London, W.11
BAYwater 8721/2

STADIUMS



**HOTCHKISS
ENGINEERS LIMITED**
EASTBOURNE • Tel. 2424.7 lines

CONTRACT • NEWS •

OPEN

BUILDING

AMESBURY R.C. (a) 22 houses and 13 bungalows at Amesbury. (b) Messrs. Bothams & Brown, 32 Chipper Lane, Salisbury. (c) £2gn, payable to Council. (d) February 9.

AMPTHILL R.C. (a) Three bungalows and site works at Greenfield Road, Westoning. (b) Engineer and Surveyor, 12 Dunstable Street, Ampthill, Bedford. (c) 2gn. (e) February 16.

ASHTON-UNDER-LYNE B.C. (a) Fixed price tenders for the erection of 106 houses on Lord's Fields estate, Ashton-under-Lyne. (b) Borough Surveyor, Municipal Buildings, Ashton-under-Lyne. (c) 3gn. (e) February 18.

BEDDINGTON AND WALLINGTON B.C. (a) 42 flats at Mill Green, London Road, Mitcham Junction, Surrey. (b) Town Clerk, Town Hall, Wallington, Surrey. (d) February 14.

CASTLEFORD B.C. (a) Erection and completion of 68 houses, complete with external works, drainage and services, at Half Acres, Castleford, Contract No. 144. (b) Borough Engineer and Surveyor, Town Hall, Castleford. (c) 2gn. (e) February 21.

CIRENCESTER R.C. (a) Fixed price tenders for the erection of 14 dwellings at Quenington. (b) Pyle & Saint, Thomas Street House, Cirencester, Glos. (c) 2gn, by cheque, payable to Council. (e) February 16.

COLCHESTER B.C. (a) (i) Eight two-storey flats at Shrub End site; (ii) 24 three-storey, two-storey flats and houses at Monkwick site; and (iii) 137 three-storey, two-storey flats, houses and bungalows at Greenstead site. (b) Borough Engineer, 1 West Stockwell Street, Colchester. (c) (i) 2gn; (ii) 4gn; and (iii) 12gn. (e) February 17.

CORNWALL C.C. (a) Fixed price tenders for the construction of a branch library at St. Austell. (b) County Architect, County Hall, Truro. (c) 3gn. (d) February 7. (e) Mid-March.

DAGENHAM B.C. (a) 79 dwellings at Beamway, Rainham Road. (b) Borough Surveyor, Civic Centre, Dagenham. (c) 2gn. (e) February 26.

EIRE—CARLOW E.C. (a) Extension to Tullow Vocational School. (b) Chief Executive Officer, Vocational Education Committee, Court Place, Carlow. (c) 10gn. (e) February 14.

ESSEX C.C. (a) (i) Nurse's house at Stanway, nr. Colchester, estimated to cost £2,250; (ii) school teachers' houses (four) at Brentwood St. Martin's Secondary School, estimated cost £10,000; (iii) and (iv) schoolkeepers' houses at Loughton Secondary School and Aveley Technical School, estimated cost £2,250 each; (v) additional classrooms, etc., at Rawreth C.E. Primary School, estimated cost

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.

HIGH QUALITY WHITE FACING BRICKS

(S.P.W. BRAND)

As supplied to the WAR OFFICE, H.M. MINISTRY of WORKS, AIR MINISTRY, Etc.

Sample and Brochure
sent on request

**M. MCCARTHY
& SONS, LTD**
BULWELL — NOTTINGHAM

'PUDLO'

Registered Trade Mark
BRAND
CEMENT WATERPROOFING POWDER

USED IN PORTLAND CEMENT
CONCRETE AND RENDERINGS
TO EXCLUDE OR RETAIN WATER

WRITE FOR DIRECTIONS BOOK
To:
KERNER-GREENWOOD & CO., LTD.
KING'S LYNN

Sole Proprietors and Manufacturers
**THE MOST RELIABLE FIRE CEMENT IS
'FEUSOL'—have you tried it?**

A. & P. STEVEN LTD

"APS" LIFTS

181 ST. JAMES RD., GLASGOW, C.4
Tel. Bell 0356
LONDON: 10 Nicholson Street, S.E.1.
Tel. Waterloo 4465
MANCHESTER, 1: 3 Charles St. Tel. Ardwick 1391
EDINBURGH, 2: 2 North West Circus Place,
Tel. Caledonian 2095
BIRMINGHAM, 20: Henley Lodge, 19 Church Lane,
Handsworth Wood. Tel. Northern 0284

£6,200; (vi) alterations and additions to Colchester Fire Station, estimated cost £10,000; (vii) kitchen and dining room at Hornchurch Langtons Primary School, estimated cost £10,000; (viii) additional classrooms at Hornchurch Whybridge Primary School, estimated cost £9,750; (ix) completion of Chigwell The West Hatch Technical School, estimated cost £63,500; and (x) classroom/library, etc., at Colchester St. Helens Secondary Girls' School, estimated cost £3,325. (b) County Architect, County Hall, Chelmsford (separate applications). (d) February 7.

GODALMING B.C. (a) Fixed price tenders for the erection of 20 dwellings at Summers Lane, Farncombe. (b) Borough Engineer and Surveyor, Branksome, Filmer Grove, Godalming. (c) 2gn. (e) February 13.

GOWER R.C. (a) Eight houses and 12 flats at Manchester site, Penclawdd. (b) Engineer, 19 Uplands Crescent, Swansea, Glamorgan. (c) 5gn. (e) February 18.

GWYNEDD POLICE AUTHORITY. (a) Extensions to Llandudno police station. (b) County Architect, County Offices, Caernarvon. (c) 2gn, by cheque, payable to the Authority. (d) February 7.

HAMPSHIRE C.C. (a) Erection of Cove Manor Junior School. (b) County Architect, The Castle, Winchester. (c) 2gn, payable by cheque to County Treasurer. (d) February 6.

HARLOW U.C. (a) Three-storey block containing five maisonnettes and five flats at Cock Green, Great Parndon, Harlow, Essex. (b) Engineer and Surveyor, Netteswell Hall, Harlow, Essex. (c) 2gn. (e) February 28.

HUDDERSFIELD B.C. (a) All trades firm price tender for the erection of (i) 16 flats and four bungalows at Bradley estate; and (ii) 16 flats (including demolition work) at Towngate, Nelson. (b) Borough Architect, High Street Buildings, Huddersfield. (c) 2gn. (e) February 13.

INGOLDMELLS P.C. (a) Block of 20 brick chalets at Ingoldmells Point. (b) Clerk to the Council, 2 Festival Avenue, Ingoldmells, Lincs. (e) February 14.

MAIDENHEAD B.C. Contract 5K. (a) 11 pairs of houses and one block of four houses, together with all necessary drainage and site works, at Cox Green estate. (b) Borough Engineer, 14 Craufurd Rise, Maidenhead. (c) 2gn. (e) March 9.

MARGATE B.C. (a) Three-storey block of 21 flats at Flint Row, Margate. (b) Borough Engineer, 38 Grosvenor Place, Margate, in writing. (e) February 21.

NEWCASTLE UPON TYNE E.C. (a) Erection of extensions to Heaton Grammar and High Schools, comprising two-storied laboratory building, together with reinforced concrete basement. (b) City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. (d) February 7.

NORTH COTSWOLD R.C. (a) Firm price tenders for the erection of six dwellings at Guiting Power; 11 houses at Longborough; eight houses at Ebrington; six houses at Stow-on-the-Wold; six houses at Willersey and three old people's bungalows at Broadwell and two at Chipping Campden. (b) Council's Clerk, Council Offices, Moreton-in-Marsh, Gloucestershire. (d) February 7.

N. IRELAND—NORTHERN IRELAND HOSPITALS AUTHORITY. (a) Construction of a new mortuary at South Tyrone Hospital. (b) The Secretary, Northern Ireland Hospitals Authority, Belfast. (d) February 9.

NORTH WALSHAM U.C. (a) Eight unity type flats and four unity type houses on fixed price basis. (b) Council's Clerk, Council Offices, New Road, North Walsham, Norfolk.

NORTHWICH U.C. (a) Construction and erection of the Northwich Victory Memorial Hall. (b) Messrs. Elleray & Wallace, Chester Way, Northwich, or Engineer and Surveyor, The Council House, Northwich. (e) February 16.

OAKHAM R.C. (a) Four houses, four bungalows and four garages, together with road works, etc., at Exton, near Oakham. (b) Messrs. Pick, Everard, Keay & Gimson, 6 Millstone Lane, Leicester. (c) 2gn. (e) February 20.

PRESTON B.C. (a) Erection of police operations centre in Pedders Lane, Ashton, Preston. (b) Borough Engineer and Surveyor, Municipal Buildings, Preston. (c) 2gn. (e) February 12.

RIPON AND PATELEY BRIDGE R.C. (a) 17 bungalows, together with drains, paths, fences and external services at east side of High Street. (b) J. C. Kenyon, Council Offices, Pateley Bridge, Yorks. (e) February 24.

ROWLEY REGIS B.C. (a) 76 houses, eight bungalows and 14 garages on Blackberry Lane estate, Springfield. (b) The Architect, Municipal Buildings, Old Hill, Staffs. (c) 5gn. (e) March 3.

ST. ALBANS C.C. (a) 38 houses on London Road estate, St. Albans. (b) City Engineer and Surveyor, 16 St. Peter's Street, St. Albans. (c) 3gn. (e) February 17.

ST. THOMAS R.C. (a) Erection of (i) two bungalows at Stoke Canon; and (ii) three bungalows at Broadclyst. (b) Messrs. Lucas, Roberts & Brown, Barnfield Hill, Exeter. (e) February 11.

SALFORD C.C. (a) Firm price tenders for (Contract No. 1) changing rooms at Legh Road playing fields, Salford, 7; (Contract No. 2) changing rooms at Northumberland Street playing fields, Salford, 7; (Contract No. 3) additional classrooms, etc., at St. Paul's C.E. School, Moor Lane, Salford, 7; and (Contract No. 4) alterations and extensions to Lower Kersal Primary School, Northallerton Road, Salford, 6. (b) City Engineer, Town Hall, Salford, 3. (c) 2gn each contract. (e) February 23.

SCOTLAND—DALKEITH B.C. (a) All trades except painter work for 51 houses on Duke's Park (second development). (b) Messrs. Morham & Brothie, 29 Hanover Street, Edinburgh.

SCOTLAND—DUNDEE CORPORATION. (a) Design and erection of multi-storey flats of point block design in blocks 12 and 15 storeys in height, for the redevelopment of isolated sites. (b) City Quantity Surveyor, 21 City Square, Dundee. (e) February 20.

SCOTLAND—HELENSBURGH B.C. (a) Erection of dwellinghouses at I.D.

Hospital and Victoria Nursery sites, Helensburgh (all or individual trades). (b) Messrs. W. Gladstone Brown & Muir, 102 Bath Street, Glasgow, C.2, stating trade or trades for which applicant wishes to tender. (d) February 6.

SCOTLAND—INVERNESS C.C. (a) Fixed price tenders for one block of two four-apartment police houses at Alma Road, Fort William. (b) County Architect, The Castle, Inverness. (d) February 10.

SCOTLAND—ROSS AND CROMARTY C.C. (a) Separate trades for the erection of (i) three blocks of two houses at Sandwick; (ii) four blocks of two houses at Plasterfield; and (iii) two blocks of three-apartment houses (six houses) and two blocks of four-apartment houses (14 houses) at Tong, comprising site preparation, brick, etc., work, carpenter and joiner, roof tiler and roughcast, plumber, plaster, electrical, painter and glazier. (b) Messrs. R. Armour & Partners, 166 Union Street, Aberdeen. (d) February 9, stating trade(s) for which schedules are required. Tendering for individual sites within the contract will not be permitted.

STOCKPORT B.C. (a) Erection of (i) Fylde Lodge High School for Girls (first phase); (ii) Belmont Secondary School; and (iii) 10 houses and 12 flats (Contract 53). (b) Borough Architect, Town Hall, Stockport. (c) 2gn each contract. (b) (i) and (ii) March 4, and (iii) March 2.

WAKEFIELD C.C. (a) Erection of a five-storey extension to the Technical College in Margaret Street, Wakefield. (b) City Engineer, Town Hall, Wakefield. (d) February 9.

WALLASEY B.C. (a) 74 units of accommodation in four-storey maisonnettes in Church Street area, together with 22 garages and an electricity sub-station, paths, drains and ancillary works. (b) Borough Architect, Town Hall, Wallasey. (e) February 19.

WELLINGBOROUGH U.C. (a) Fixed price tenders for the erection of a single-storey self-service shop at Queensway, Wellingborough. (b) Engineer and Surveyor, Council Offices, Swanspool, Wellingborough. (c) 2gn. (e) February 16.

WESTMORLAND C.C. (a) Erection of a new home for 40 old people and resident staff at Kirkby Stephen. (b) County Architect, County Hall, Kendal, Westmorland. (d) February 9.

WEST RIDING C.C. (a) Erection of an additional dining space at Bretton Hall Training College. (b) County Architect, Bishopgarth, Westfield Road, Wakefield. (d) February 9. (e) February 23.

WORCESTER C.C. (a) Adaptation and extensions to form old people's hostel at Warndon Hall. (b) City Engineer and Surveyor, 22 Bridge Street, Worcester. (c) 3gn (cheques payable to Corporation of Worcester). (e) February 21.

YORK C.C. (a) Fixed price tenders for the erection of 27 dwellings on sites 11/12 (Townend Street) in the Groves redevelopment area, York. (b) City Architect, 8 St. Leonard's Place, York. (c) £3 (cheques payable to York Corporation). (e) February 23.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

NORWICH. (1) Ten-storey block of offices for Norwich Union Insurance Societies. (2) All Saints' Green. (3) R. C. Carter Ltd., Drayton, Norwich. (4) £1,250,000.

BURNLEY B.C. (1) First phase extensions of Municipal College. (3) Holland & Hannan and Cubitts (North-Western) Ltd., Garston, Liverpool. (4) £114,449.

FULHAM B.C. (1) 162 flats and maisonnettes. (2) Dieppe Street. (3) Tersons Ltd., 4 Dollis Park, London, N.3. (4) £314,869.

LEICESTER C.C. (1) 202 dwellings. (2) Eyres Monsell estate. (3) John Laing & Son Ltd., London, N.W.7.

GUILDFORD R.D.C. (1) 46 flatlets. (2) Longacre, Ash. (3) F. J. Minns Ltd., Botley, Oxford. (4) £65,844.

BARNES B.C. (1) 40 flats. (2) Westfields estate. (3) Caffin & Co. Ltd., 25 Craven Street, London, W.C.2. (4) £70,152.

LICHFIELD C.C. (1) 74 dwellings. (2) Wheel Lane estate. (3) Joseph Webb & Co. Ltd., Ivy House Lane, Cosceley, Bilston, Staffs.

LONDON, W. (1) Alterations to White's Hotel. (2) Lancaster Gate, W.2. (3) J. Garrett & Sons Ltd., Cathies Road, Balham Hill, London, S.W.12. (4) £30,000.

KIDDERMINSTER B.C. (1) Contract 1 of redevelopment, houses and flats. (2) Broad Street. (3) Geo. Wimpey & Co. Ltd., Hammersmith Grove, London, W.6. (4) £126,592.

PORTADOWN (CO. ARMAGH) B.C. (1) 130 houses and 20 old people's dwellings. (2) Killycomain estate. (3) Colleen Bros. Ltd., Hanover Street, Portadown. (4) £233,177.

FIBROUS PLASTERWORK
OF EVERY DESCRIPTION

ALLIED GUILDS

King Edward Square

SUTTON COLDFIELD Tel. Sut 3809

SPECIFY

WYKAMOL
FOR
WOODWORMDetails from Richardson & Starling Ltd.,
(Dept. AB) 6 Southampton Place, London, W.C.1

ESTABLISHED OVER 100 YEARS

J.W. GRAY & SON LTD
1 PRINCETON STREET
BEDFORD ROW, W.C.1
LONDON &
13 CASTLE STREET
SALISBURY

LIGHTNING CONDUCTORS



SECOMASTIC LIMITED Bracknell Berks. Tel. Bracknell 710

GRANITE SETTS

DELIVERED ANYWHERE

HARRIS & BAILEY LTD.
CROYDON

ADDISCOMBE 3181 Ref. Mr. T. A. Jones

PORTSMOUTH C.C. (1) Modern school. (2) Court Lane. (3) Grove Road, Drayton. (3) Frank J. Privett Ltd., Copnor Road, Portsmouth. (4) £99,342. (1) 80 flats and maisonnettes. (2) Green Road. (3) H. E. Collins Ltd., Eastern Road, Farington, Portsmouth. (4) £118,650.

WEST HAM B.C. (1) 72 maisonnettes, 35 houses, 46 flats. (2) Windmill Lane. (3) Tersons Ltd., 4 Dollis Park, London, N.3. (4) £287,618.

BIRKENHEAD B.C. (1) 84 dwellings. (2) Oxtan Road. (3) Unit Construction Co. Ltd., Speke Boulevard, Liverpool. (4) £119,584. (1) 55 dwellings in five-storey blocks. (2) New Chester Road. (3) Geo. Wimpey & Co. Ltd., London, W.6. (4) £93,618.

EDINBURGH C.C. (1) 119 houses, six shops, and 10 shops. (2) Clermiston South and Meadowfield. (3) Hart Bros. (Builders) Ltd., Macmerry, East Lothian. (4) £215,954.

NOTTINGHAM. (1) Block of offices for Boots Pure Drug Co. Ltd. (2) Station Street. (3) William Moss & Sons Ltd., Queen's Road, Loughborough. (4) £750,000.

WESTON-SUPER-MARE B.C. (1) 67 dwellings. (2) Bourneville estate. (3) W. J. Pople & Sons Ltd., High Street, Burnham-on-Sea, Somerset. (4) £100,858.

DURHAM UNIVERSITY. (1) First stage of physics block. (3) J. Gerrard & Sons Ltd., Swinton, Manchester. (4) £80,000.

BLACKWELL (NOTTS) R.D.C. (1) 106 dwellings. (2) South Normanton. (3) C. Milward & Co. Ltd., Kirkby-in-Ashfield, Notts.

SOUTHPORT. (1) Luxury flats, offices, showrooms. (2) Lord Street. (3) Tersons Ltd., Church Street, Liverpool. (4) £100,000.

WORCESTER C.C. (1) 281 dwellings. (2) Warden estate. (3) A. C. Lloyd (Builders) Ltd., 1 Chapel Street, Leamington Spa. (4) £365,505.

NON FERROUS

WALL TIES & MASONRY FIXINGS



S. J. BRIERLEY (WILTS) LTD

BRADFORD-ON-AVON

Telephone 2234

DALE ELECTRIC

CONTRACTORS (BIRMINGHAM) LTD

25, BRISTOL ROAD,

BIRMINGHAM, 5. CAL. 3641

Specialists in

STAINLESS STEEL
FABRICATIONSBuilt to your requirements or from a wide range of standards
Expertly made and beautifully finished by Metal Craftsmen

Associated Metal Works

GLASGOW I. LTD.

Telephone: BELL 2004/6

Telegrams: "STAINLESS, GLASGOW"

30 ST. ANDREW'S SQUARE, GLASGOW, C.1

LONDON: 7 GROSVENOR GARDENS, S.W.1. Phone: VICTORIA 1977/8

And at LIVERPOOL • BIRMINGHAM • NEWCASTLE • MANCHESTER • BELFAST • DUBLIN



'SYSTON' Rolling Shutters

MANUFACTURED IN STEEL, WOOD & ALUMINIUM

GALVANISED SHUTTERS AND SERVY
HATCHES TO SUIT ALL REQUIREMENTSSHUTTER CONTRACTORS TO WAR DEPARTMENT AND AIR MINISTRY
J. TAYLOR (SYSTON) LTD. • SYSTON • LEICESTER
TELEPHONE: SYSTON 2133 • MANCHESTER OFFICE: RINGWAY 3996



Egham, Hythe C.S. School

'CLEMBRO' GALVANISED METAL WINDOWS

TRADE MARK



The product of long experience and craftsmanship - specified by Architects for schools, hospitals, offices, houses and flats

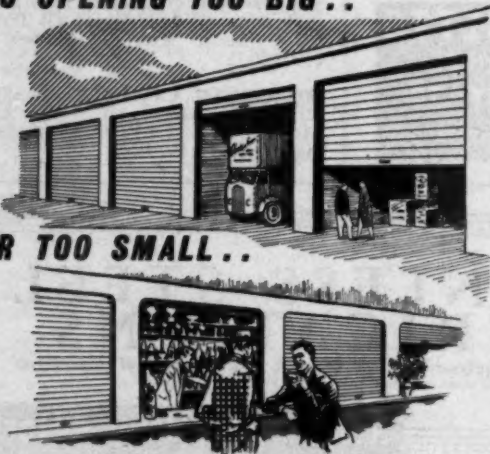
Catalogue gladly sent on request.

CLEMENT BROS., HASLEMERE, LTD.

CLEMBRO WORKS · WEY HILL · HASLEMERE · SURREY Tel.: HASlemere 1193/4 Grams: Clembro, Haslemere

NO OPENING TOO BIG..

OR TOO SMALL..



FOR

Thornborough
roller shutters

... transport depots or bars, garages or shop fronts... Thornborough roller shutters can be fitted to any opening. They are available in steel, wood or aluminium, hand gear or electrically operated. Write for literature G.

THORNBOROUGH & SON (MANCHESTER) LTD
St. Vincent St., Ancoats, Manchester 4. Tel. COLlyhurst 2887
London: Vale Works, Twickenham, Middx. Tel. Popesgrove 0797

Representative for Northern Ireland:

OSWALD McMULLEN, 6 Sussex Place, Belfast. Tel.: 29126



Uni-Bond

BONDS ANYTHING TO ANYTHING

More and more UNI-BOND, the multi-purpose Bonding Agent, is being used by Joiners, Plasterers, Painters, Decorators, in floor-laying, glazed tiling, and in fact everywhere where timber, metals, hardboard, bricks, tiles and a hundred other materials that require permanently filling, bonding or cementing together. In handy cans, no mixing or heating, clean in use and finish. UNI-BOND is resistant to water, oil and petrol and dilute acids, does not crack or craze.

THERE IS NOTHING SO GOOD AS UNI-BOND
BACKED BY A MONEY-BACK GUARANTEE

Send your inquiries to:

Dept. 'B' THE LIQUITILE SUPPLY COMPANY LIMITED
48 High Street, Camberley, Surrey
Telephone: Camberley 2263

YOU DON'T
WHEN YOU BUY
UNI-BOND

Uni-Bond is sold undiluted, extended or filled, and therefore has treble its value, as it can be filled and diluted to your own particular work.

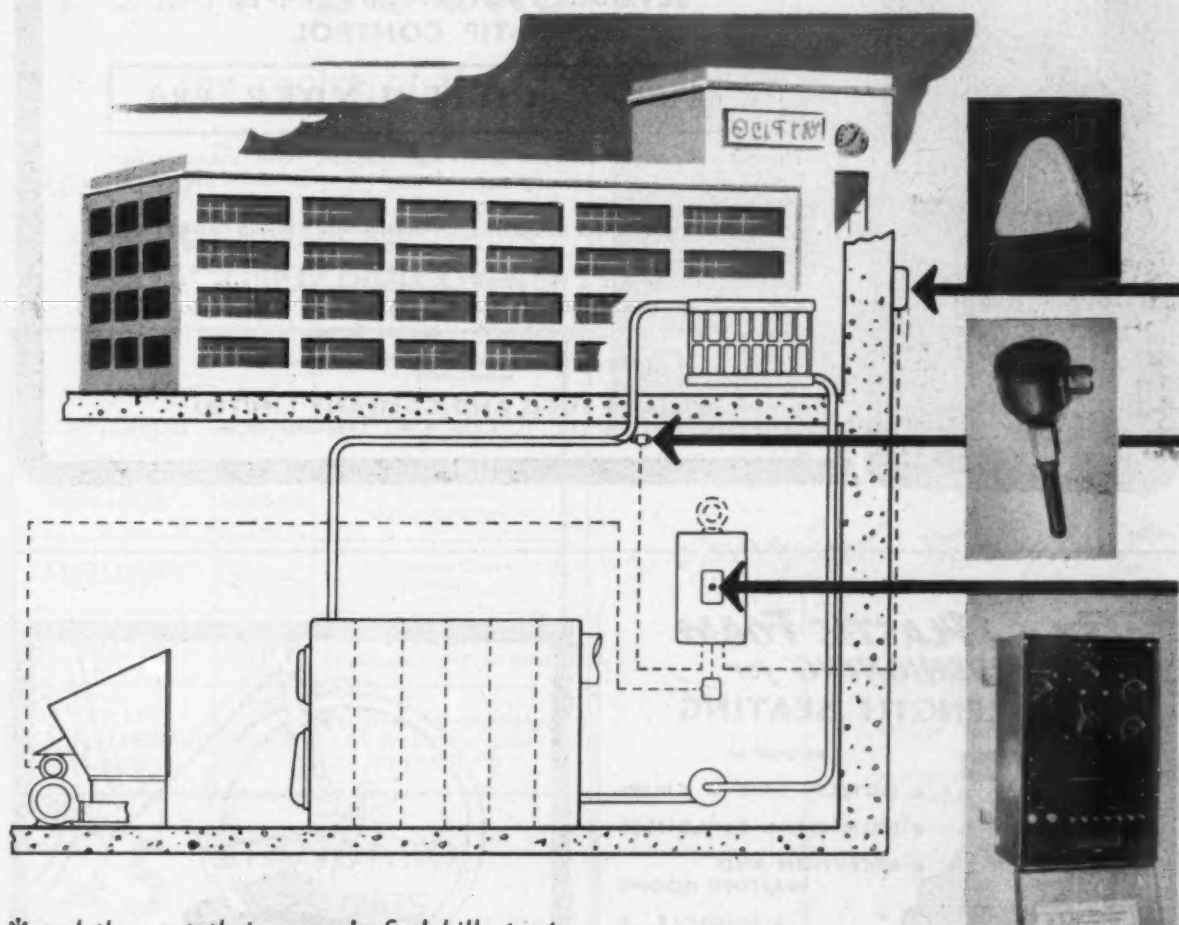
For instance:

1 gallon of Uni-Bond added to 2 gallons of water, produces 3 gallons of bonding fluid for plastering or rendering.

The highly concentrated nature of UNI-BOND, unlike many imitations, permits considerable dilution for numerous applications without loss of adhesion. UNI-BOND is the most universal bonding agent used throughout the United Kingdom, by the M.O.W., Admiralty, Air Ministry, War Department, and the largest and leading building contractors, also specified by leading architects.



THERMOCONTROLLED buildings are comfortable buildings*



* and they cut their owner's fuel bills too!

Accurate temperature control is an essential—because it makes the optimum use of fuel. Zoning control, by variator with automatic night shut-down, heating level governed by outside temperature—all these factors are done for you or your client, when you use a Thermocontrol system. Send for Section 1 of the Thermocontrol Compendium—it tells you exactly how you can save money and be more comfortable!

Thermo  **control**
INST. CO. LTD.

10 VALENTINE PLACE, BLACKFRIARS ROAD, LONDON, S.E.1 Tel: WATerloo 7356

SPECIFY WHEN PLANNING THE NEW SUGG HALCYON SELECTIVE AIR HEATER

IMMEDIATE WARMTH . . . FOR
SEVERAL ROOMS . . . BY SIMPLE
FINGER-TIP CONTROL

CAPITAL COST UNDER £80



The flexibility of the Halcyon Gas Heater makes it an eminently suitable heating installation for every type of residence—from bungalows and houses to flats.

Built for operating in a very small cupboard, its unusual compactness, combined with its many outstand-

ing features, have made instant impact on architectural plans in all parts of the country.

Halcyon offers highly efficient heat transference to the air flow, resulting in a discharge of pure warmed air within a few minutes. Halcyon is silent—there is no smoke—there are no fumes.

Full literature and technical details available from the manufacturers:

WILLIAM SUGG AND COMPANY LIMITED
67-73 REGENCY STREET, LONDON, S.W.1. Telephone: VICTORIA 3211

LATEX and PLASTIC FOAM CUSHIONING for LONG LENGTH SEATING

as used in

- HOTELS, BARS & CLUBS
- MUNICIPAL BUILDINGS
- RECEPTION AND WAITING ROOMS
- SCHOOLS & LECTURE HALLS
- WINDOW BAYS AND ALCOVES
- EXHIBITION STANDS



Dunlopillo cushions and backrests supplied to any specification, uncovered or covered and ready for installation on site.

Send for illustrated list

LATEX UPHOLSTERY LTD.

THE LEADING SPECIALISTS
41, LONSDALE ROAD, LONDON, W.11
Telephone: BAYSWATER 6262-5



Stelcon Bicycle Blocks are made of reinforced concrete, and are therefore resistant to corrosion in all weathers. The Blocks remain firmly in position on the ground under their own weight and when let into the surface of the park cause no obstruction when not in use. Full details sent on request.

Stelcon
BICYCLE PARKING
STELCON (INDUSTRIAL FLOORS) LTD.
CLIFFORDS INN, LONDON, E.C.4. Tel. CHA. 9541

SADDS QUALITY FLUSH DOORS

... the choice of the
discerning

ARCHITECT

CONTRACTOR and

BUILDING OWNER

DESIGN	CORE	FEATURE/USE
'MALDON'	Solid	Stability, Fire Retardant Hi-Fi
'CHELMER'	Semi-Solid	50% solid Public Buildings
'BEELEIGH'	Skeleton	Architectural spec Domestic
'F.D.15'	Skeleton	Internal: Hardboard facings for paint
'F.D.20' (B.S. Fundamentals) 'F.D.20x'	Skeleton	F.D.20 Internal: for painting F.D.20x External grade plywood facings

**5 STANDARD
DESIGNS**
and flush doors
to architects' details

Write for full details:

**JOHN SADD
& SONS LTD.**

WHARF FD2 . MALDON . ESSEX

Telephone: Maldon 131

LONDON OFFICE:

329 High Holborn, W.C.1 Telephone: CHAncery 7214

PULLEN

PUMPS

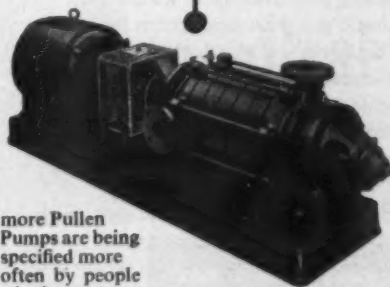


... specified throughout

For London's tallest office block,
constructed by Taylor Woodrow
Construction Ltd. for occupation by
Bowater Paper Corporation Ltd.

- * Heating and Hot Water Supply
Pumps.
- * Domestic Cold Water Pumps.
- * Drinking Water and First Aid
Fire Main Booster Pumps.
- * Sewage Disposal Pumps.
- * Sump Drainage Pumps.

including two
H3X5 Stage
Pumps



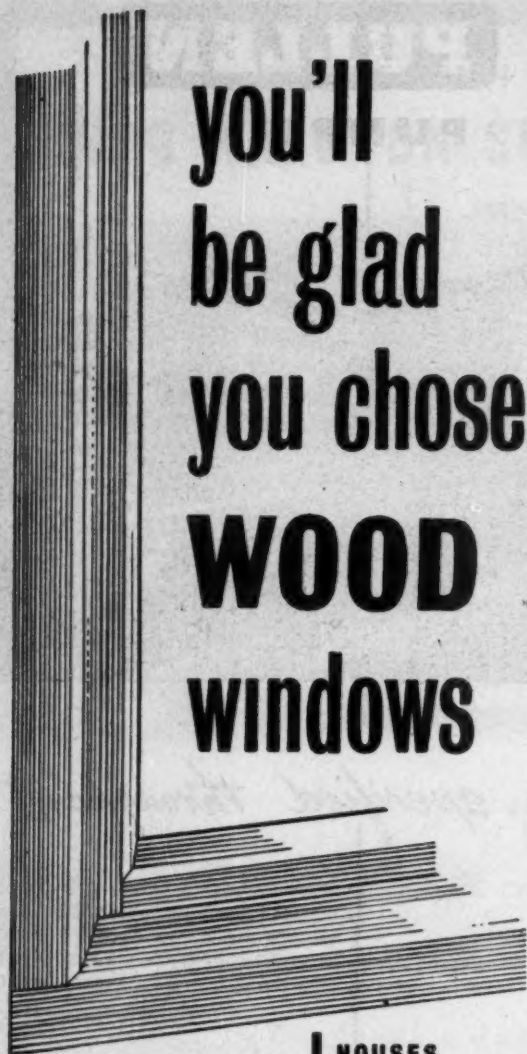
more Pullen
Pumps are being
specified more
often by people
who know

FREDK. A. PULLEN & CO. LTD.

58 HARLEYFORD ROAD, LONDON, S.E.11

Telephone: RELiance 2671

Make YOUR pumping problem OURS



you'll
be glad
you chose
WOOD
windows

*Wood windows
are ideal
in every way for...*

**HOUSES
FLATS
SCHOOLS
HOSPITALS
OFFICES
FACILITIES**

Wood is functional, economical to install and maintain, and provides maximum flexibility in expression. Furthermore, wood windows reduce heat losses, sound transmission and condensation. Remember, too, with wood windows you are ensured a quick delivery.

A CASE IN POINT Wood windows have been used in the new Administrative Block at London Airport with a view to combining functional efficiency with the required style of contemporary design. For advice on wood windows suitable for all types of buildings, consult E.J.M.A. Write to the address below

THE ENGLISH JOINERY MANUFACTURERS' ASSOCIATION (INCORPORATED)
(with which is associated the Scottish Joinery and Door Manufacturers' Association)
SACKVILLE HOUSE · 40 PICCADILLY · LONDON, W.1 · Telephone: REGENT 4448/9

Nothing comparable costs less * than 'NOELITE' external paving

'Noelite' can give distinctive character to paths and pedestrian areas. It is a precast slab with non-slip surface in numerous sizes and five colours.



'Noelite' is on permanent exhibition at the Building Centre, 26 Store Street, London, W.C.1, and free descriptive literature for architects and builders is available on application.

◀ 9" SQUARES

See the Architectural Review *
February 1957

pave the way with
'NOELITE'

'NOELITE' LTD., BOROUGH GREEN, KENT. PHONE: 2686

Adamsez Ltd

SANITARY ENGINEERS AND
FIRECLAY MANUFACTURERS

SCOTSWOOD-ON-TYNE

London Showroom: 75 VICTORIA STREET, S.W.1.

RENOWN 5474

MANDER & GERMAIN

LIMITED

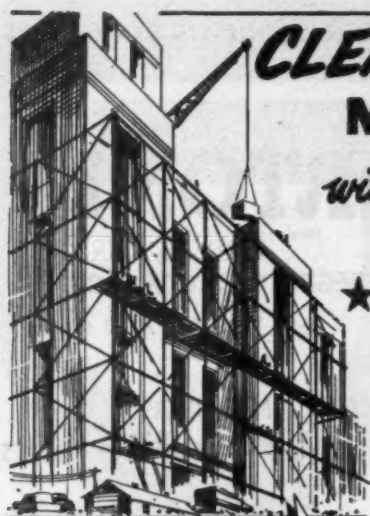
Architectural Craftsmen

MARBLE · STONE · GRANITE

FLOORS · WALL LINING · CHIMNEY PIECES · ETC.

WILLOWBANK WHARF

PUTNEY BRIDGE · LONDON S.W.6



CLEANER! DRYER! BETTER!

MASONRY and BRICKWORK

with **ROMANITE W.R.**

SILICONE WATER REPELLENT

ROMANITE W.R. is manufactured basically from highly refined silicone resins. It is a potent silicone water repellent, effective, durable and economical.

Simplicity is the keynote of application by either brushing or spraying. Ready for use.

Dirt and impurities in rain and atmospheric dampness simply flow away and leave the masonry and brickwork clean, dry and free to breathe.

*The Silicone Resin
Water Repellent,
Non-Corrosive
and Lasting*



Concrete slab, partly treated. See how the water sinks into the untreated portion and stays in drops elsewhere. Note the sharp division.

Mfrs: **ANDREW MAXWELL DIVISION**
(The Liverpool Borax Co. Ltd.)
MAXWELL HOUSE, ST. PAUL'S SQUARE, LIVERPOOL, 1.



Laconite
REGD.

PLASTIC COATED WALLBOARDS

The
Quality
Finish

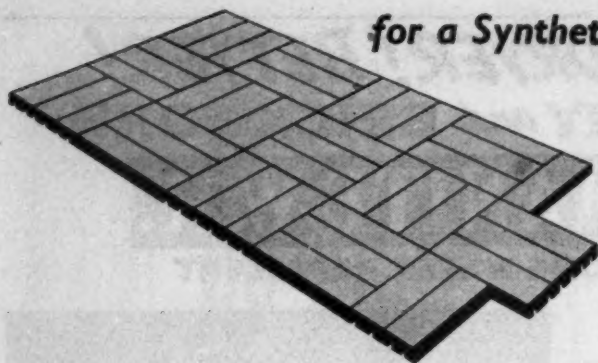
FOR HYGIENIC DECORATION

- 1 PLAIN OR TILED, 6' x 4' or 8' x 4' at 2/- sq. ft.
- 2 EASY TO FIX. Can be sawn or drilled
- 3 EASY TO CLEAN with a damp cloth
- 4 VARIETY OF COLOURS
- 5 Also **TABLE-TOP** for lateral surfaces

From Local Timber Merchants or
write for name of nearest stockist

LACONITE LIMITED

Halfway Avenue, Walton-on-Thames,
Surrey. Tel. 1000



for a Synthetic Wood Block Floor at Low Cost

NORTONIA

(Registered)

RUBBER IMPREGNATED FLOOR BLOCKS

6in x 2in x 1/2in — LAID IN SAND AND CEMENT

**NO MEMBRANE REQUIRED
MAINTAINED BY WASHING**

**GUARANTEED — FIVE YEARS
PLAIN AND MULTI COLOURED — PLEASING SHADES**

Acres laid in Technical Colleges, Schools, Churches, Factories, etc.

IDEAL UNDER CONCENTRATED TRAFFIC

*Samples and prices
on request*

THE TERRADURA FLOORING Co. LTD.
PROVIDENCE FACTORY, NORTON STREET
MILES PLATTING, MANCHESTER, 10

Established 50 years

Telephone - Collyhurst 1059 - 4533



*Ribbed for appearance...
Ribbed for strength...*

Patent No. 735602

BATLEY 'UP & OVER' DOOR

A GREAT IMPROVEMENT TO ANY GARAGE

Batley, smooth-sliding, trouble free 'Up and Over'
Doors can be quickly and easily fitted to any width
or height of opening

Panelled with Ribbed Aluminium
Alloy, standard size 7ft 5 1/2in wide
by 6ft 3in high

£20

In exterior grade Mahogany
Plywood, standard size 7ft 5 1/2in
wide by 6ft 3in high

£19

Other sizes 6ft to 8ft 1in wide by 6ft 3in high

ATTRACTIVE DEFERRED TERMS

ERNEST BATLEY LIMITED

96d Colledge Rd., Holbrooks, Coventry B9245/6
Also: 96d New Islington, Manchester 4 Collyhurst 2887

FULL DETAILS AND
LITERATURE FROM

Glass Reinforced Plastics

edited by Phillip Morgan, M.A.

Many developments in the field of glass reinforced plastics have called for considerable changes in this important book. The text has been largely re-written bringing together all the latest information about the raw materials, fabrication techniques and specialized applications. From all leading booksellers,

**2nd edition 45s net,
by post 46s 9d.**

Published by Iliffe & Sons Limited
Dorset House, Stamford St., SE1.



STRUCTURAL STEELWORK
for INDUSTRIAL PROJECTS
ROOF TRUSSES 15' 0" to 100' 0" SPAN

As specialists in roof truss design and fabrication we welcome inquiries for frameworks to suit standard or non-standard types of roof covering. Illustrated brochure available on application.

THE NORTHARC ORGANISATION LTD.

260, LANGHAM ROAD, TURNPIKE LANE, LONDON, N.15.
PHONE BOWES PARK 3757



zinc

think



for flat roofs, pitched roofs, dormers, gutters rain water pipes weatherings, flashings aprons, porches, canopies fascias and copings Information on all the uses of Zinc in building is obtainable from the

Zinc Development Association

34 BERKELEY SQUARE LONDON W1 TEL: GROSVENOR 6636

these New Facts

PROVE

ARBOSEAL

outdates all other Sealing Strips!

- Based on a polythene plasticised medium it supersedes traditional Vegetable oil based mastics and sealing strips.
- Completely inert and impervious to water and ultra-violet light.
- Provides a resilient seal or gasket with great powers of recovery under thermal movement.
- Joints and seals almost all building materials.
- Never hardens or dries out.
- Easily removed from the reel.
- Available in flat and round sections.
- No paint protection required.

Send for descriptive leaflet.



ARBOSEAL

mastic strip with Polythene base

Sole manufacturer:
ADSHED RATCLIFFE & Co. Ltd
Belper, Derby. Tel: Belper 351/2

OFFICIAL ANNOUNCEMENTS APPOINTMENTS • CONTRACTS • TENDERS

Rate: 20/- per inch and pro rata, minimum half inch. Close for press 1st post Monday for following Wednesday Issue

APPOINTMENTS

Borough of Wrexham

APPLICATIONS are invited for the appointment of Architectural Assistant, salary APT I (£575 to £725 per annum). Point of entry according to qualifications and experience.

House provided if required.
Applications to the undersigned by 12 noon, February 9, 1959.

PHILIP J. WATERS,
Town Clerk.

Guildhall,
Wrexham.
January 19, 1959. [4798]

County Borough of Croydon ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for this appointment in the School Architect's Section from persons of the R.I.B.A. Intermediate examination standard.

Salary commencing according to qualifications and experience between £695 per annum and £875 per annum on a scale rising (when fully qualified) to £1,060 per annum.

Application forms from Chief Education Officer, 19 Katharine Street, Croydon. Closing date February 23, 1959.

E. TABERNER,
Town Clerk. [4822]

City of Birmingham Education Committee

College of Art and Crafts
Birmingham School of Architecture

Principal: Meredith W. Hawes, A.R.C.A., A.R.W.S., N.R.D.
Director of the School of Architecture: Douglas Jones, Dip.Arch(L pool), F.R.I.B.A.

RESEARCH AND TEACHING APPOINTMENT
APPLICATIONS are invited for a full-time appointment for a period of one year, which combines research and teaching. The subject for study relates to the visual qualities of architecture.

Salary will be in accordance with the Burnham (Further Education) Scale, 1956 (Grade A) £475 x £25—£900 plus 5 per cent.
The successful applicant will be required to take up duty on May 1, 1959.

Forms of application may be obtained from the Principal, College of Art and Crafts, Margaret Street, Birmingham, 3 (s.a.e.).

Closing date: February 23, 1959.
E. L. RUSSELL,
Chief Education Officer. [4821]

ARCHITECTS

ARE required by the United Kingdom Atomic Energy Authority, in the Chief Architect's Department at its Industrial Group Headquarters, Risley, Warrington, Lancashire, to work on a large building project, and be responsible for detailed design of individual buildings within the project. Close co-operation with engineering sections will be involved.

Candidates must hold the professional qualification of Associateship of the R.I.B.A. or be Registered Architects. A thorough knowledge of modern building construction, specifications, costs, and contractual procedure is essential.

Salary between £1,300 and £1,740 according to qualifications and experience.
Contributory Superannuation. Staff housing scheme.

Send postcard for application form, quoting reference 2902/142, to Recruitment Officer at above address.

Closing date: February 16, 1959. [4815]

SENIOR ARCHITECTURAL DRAUGHTSMAN

OUR Architectural Section does a large, varied and interesting range of work.

It is situated in a locality which is rural, yet only five miles from the City of Cardiff.

To help maintain our standards in serving over 600,000 consumers we need Senior Architectural Draughtsmen who have obtained, or are studying for, membership of the R.I.B.A.

The salary will be £790/£890 and applications to our Personnel Officer at St. Mellons, Cardiff, will receive careful and prompt consideration.

The South Wales Electricity Board
(Closing date for applications—Thursday, February 12.) [4829]

APPOINTMENTS (cont)

Chorley Rural District Council

APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for this appointment at a salary in accordance with Grades APT I and II of the National Scale (£575/£845) depending upon qualifications and experience.

The appointment is superannuable and subject to the National Scheme of Conditions of Service, and to one month's notice on either side. Applications giving personal particulars, details of training and experience, and naming two referees must reach me by February 21, 1959.

DAVID CLARKSON,
Clerk of the Council.

Council Offices,
Gillibrand Street,
Chorley. [4814]

Shoreham-by-Sea Urban District Council

APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited from suitably qualified persons for the appointment of Architectural Assistant in the Surveyor's Department at a salary in accordance with Grade II/III (£725 to £1,025).

Applications stating age, qualifications, present and past appointments, experience, and names and addresses of two persons to whom reference can be made, must reach the undersigned not later than February 16, 1959.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidate satisfactorily passing a medical examination.

The appointment will be terminable by one month's notice on either side.

R. H. DAVIES,
Clerk of the Council.

Town Hall,
Shoreham-by-Sea,
Sussex.
January, 1959. [4831]

Borough of Croydon

CAPITAL WORKS PROGRAMME ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the appointment of an Architectural Assistant in the Borough Engineer's Department at a salary within the Special Grade for Architectural Assistants (£750 x £40—£1,030) according to qualifications and experience.

The successful applicant will be engaged mainly upon works of a capital nature, including the construction of a new swimming bath, and some experience in such work will be an advantage.

Housing accommodation will be made available upon satisfactory proof of need.

Applications on forms obtainable from the Borough Engineer at the address below must be received, suitably endorsed, as soon as possible. Canvassing directly or indirectly will disqualify.

HAROLD O. ROBERTS,
Town Clerk.

Town Hall,
Waterloo,
Liverpool, 22. [4817]

Borough of Epsom and Ewell

Borough Engineer and Surveyor's Department APPOINTMENT OF ARCHITECTURAL ASSISTANT—APT II

APPLICATIONS are invited for the appointment of an Architectural Assistant on Grade APT II at a commencing salary up to £875 per annum including London Weighting, according to qualifications and experience.

The Department, at present, has a considerable volume of architectural work on hand and applicants should have had experience in the preparation of plans, specifications, etc., and preference will be given to candidates holding a part of the examination leading to Associateship of the R.I.B.A.

Applications stating age, qualifications and experience, with the names of three referees, should be sent to Mr. Colin Cobbett, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, The Parade, Epsom, so as to reach him not later than Wednesday, February 18, 1959.

EDWARD MOORE,
Town Clerk. [4818]

January, 1959.

APPOINTMENTS (cont)

City and County of Newcastle upon Tyne City Architect's Department

The City Architect will be pleased to receive applications for the following vacancies in the New Town Hall Section of the Department:

(i) **Principal Assistant Architect**, Lettered Scale "A" (£1,205/£1,360 per annum).

(ii) **Senior Assistant Architect**, APT Division, Grade V (£1,175/£1,325 per annum).

(iii) **Senior Assistant Architects**, APT Division, Grade IV (£1,025/£1,175 per annum).

The post of Principal Assistant Architect will involve day to day responsibility for the development of the design and for the preparation of working drawings for this large scheme. A high standard of design ability and an appreciation of and experience in good quality building work is essential.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1. Applicants must state the post applied for when requesting particulars.

Closing date for receipt of completed applications, Saturday, February 21, 1959.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
January 27, 1959. [4816]

Borough of Walthamstow ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Borough Architect, Engineer and Surveyor) at a salary in accordance with the Special Grade, APT Division (£750/£1,030, exclusive of London Weighting), with the commencing salary according to experience.

Applicants must be Associates of the R.I.B.A., and have had experience of housing schemes.

Applications, stating age, qualifications, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon on Friday, February 20, 1959, endorsed "Assistant Architect".

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
January 29, 1959. [4823]

Loughbenton Urban District Council

(Population 45,000)

ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment at a salary within Grade APT I. Commencing salary according to qualifications and experience.

Applications accompanied by the names and addresses of two referees should reach the Clerk, P.O. Box 1, Newcastle upon Tyne, 12, by February 18, 1959. [4824]

Peterlee Development Corporation

APPOINTMENT OF TWO ARCHITECTURAL ASSISTANTS

APPLICATIONS are invited for the appointment of two Architectural Assistants on salary grade £679/£811. They are required for work on industrial and housing projects and should be of Intermediate R.I.B.A. standard with office experience.

The appointments, which are superannuable, are subject to the Corporation's Conditions of Service and will be terminable by one month's notice on either side. The successful applicants will be required to pass a medical examination.

Housing accommodation will be made available if required.

Applications, stating age, experience, qualifications and giving the names of two persons to whom reference may be made, should reach the undersigned not later than February 12, 1959.

A. V. WILLIAMS,
General Manager.

Shotton Hall,
Old Shotton,
Peterlee,
Horden,
Co. Durham. [4828]

APPOINTMENTS (cont)

County Borough of East Ham
PRINCIPAL PLANNING OFFICER
Grade APT III (£845/£1,025)

VACANCY in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date February 23, 1959.

[4827]

APPOINTMENTS (cont)

County Borough of East Ham
ARCHITECTURAL ASSISTANTS
Grade I (£575/£725)

LONDON Weighting is paid in addition. Salaries in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation necessitating the maintenance of two homes.

Further details and application forms returnable by February 13, 1959, from the Town Clerk, Town Hall, E.6.

[4815]

APPOINTMENTS (cont)

Bracknell Development Corporation

APPLICATIONS are invited for the post of Architectural Assistant in the Chief Architect's Department. The salary will be in the Higher General Division which rises to a maximum of £531. Commencing salary will be determined according to experience.

Superannuation scheme, medical examination. Housing available. Apply by February 23, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries), with names of two referees, to General Manager (A.A.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

[4825]

MISCELLANEOUS SECTION

RATE: 1/9d per line, minimum 3/6d, average line 6 words. Each para charged separately. Advertisements for Situations Wanted are accepted at the specially reduced rate of 6d per line, minimum 1/6d.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

SEMI-DISPLAY Advertisements with centralized lines are charged at 20/- per inch and pro rata, minimum half inch.

PRESS DAY, Monday. Remittances payable to Messrs. Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors

ARCHITECTURAL APPOINTMENTS VACANT

ASSISTANTS required by Mayfair Architects and Planning Consultants with varied home and overseas practice. Five-day week. Telephone for appointment. Regent 2291.

[4811]

BRIXTON SCHOOL OF BUILDING require as soon as possible, Lecturer in Architecture. Candidates should have good training and professional qualifications and strong interest in construction and building services. The work includes lecturing and studio supervision, also some teaching of construction to students of quantity surveying. Special practical or research experience in appropriate field an advantage. Salary £1,260 x £31 10s—£1,417 10s. London allowance £37 16s or £50 8s. Possible increments for previous experience. Application forms from Secretary at School, Ferndale Road, S.W.4.

[4833]

BUCKINGHAMSHIRE firm of Architects within 30 miles of London with a varied practice, require two Qualified Architectural Assistants. Five-day week, salary according to age and experience. Please write giving full particulars to Box 1684.

[0136]

HENING & CHITTY, F.R.I.B.A., require Senior and Junior Draftsmen for design and construction of New Teacher Training Colleges. Write particulars to 30 Percy Street, London, W.1, or telephone MUS 8577.

[4785]

KENNETH SCOTT ASSOCIATES urgently require one qualified unmarried Assistant to work in their Accra office and two Assistants of Inter R.I.B.A. standard with some office experience to work in their London office on a hospital project. Write with full particulars of qualifications and experience to: 154 Shepherds Bush Road, London, W.6.

[4819]

SCHERRER AND HICKS require in their London office Architectural Assistant with contemporary outlook willing to use own initiative. Salary £600 to £900. Write giving full particulars of experience and salary required to 19 Cavendish Square, W.1.

[4799]

SCHWEPPE'S Architect's Department requires Assistants of R.I.B.A. Intermediate Standard. Interesting and varied work in connection with company expansion. Some travelling involved. Applicants must be resourceful and able to work with minimum supervision. Five-day week, canteen, pension scheme. Write stating age (which must be under 30), previous experience and salary required to Personnel Manager, Schweppe's House, Connaught Place, W.2.

[4812]

TAYLOR WOODROW CONSTRUCTION LTD. require Architectural Assistant of Intermediate to Final standard and contemporary outlook. Perspective ability an advantage but not essential. Good salary commensurate with experience. Pension scheme, canteen facilities. Apply Personnel Manager, Ruslip Road, Southall, Middlesex.

[4826]

TAYLOR WOODROW require two Assistant Architects capable of producing working drawings and details. Age immaterial if experienced. Salary £800 to £1,000 p.a. Please write Personnel Manager, Taylor Woodrow Services Limited, Western House, Western Avenue, Ealing, W.5.

[4830]

THURROCK U.D.C. (Engineers and Surveyors Department) require Architectural Assistant under Architect to the Council. Salary APT III (£845/£1,025 p.a.). Candidates should be Associates of the R.I.B.A., and must be experienced in the design, preparation of drawings and specifications of various building and architectural work undertaken by a local authority. Appointment pensionable. Housing accommodation may be provided

ARCHITECTURAL APPOINTMENTS VACANT (cont)

if successful candidate resides more than 20 miles from Thurrock. Applications, stating age, qualifications, and experience, and quoting three referees, to Clerk of the Council, Council Offices, Grays, Essex, by February 11, 1959. Canvassing disqualifies. Relationship with members or senior officers of the Council must be disclosed.

[4797]

VERNER REES, LAURENCE & MITCHELL urgently require two Assistants between Intermediate and Final. Salary by arrangement. Prospects. Ring PARK 3900 for interview or write 38 Holland Villas Road, W.14.

[4820]

SITUATIONS WANTED

Advertisements under this heading only are accepted at the specially reduced rate of 6d per line, minimum 1/6.

A.R.I.B.A. (38), excellent references, for health reasons seeks free-lance work at home, and offers his services to the profession on hourly basis or by arrangement. Box 1583.

[4790]

WORK WANTED

AN efficient and mobile labour force available for contract or sub-contract work. Projects of any description from start to finish covering all trades. Please phone ENFIELD 8374.

[4796]

G. GARTER & CO., Industrial Decorative Spray and Brush Painters (labour only on contract). We supply equipment. 1a Whitton Way, Hounslow, Middlesex. HOUnslow 9615, SOUthall 3815.

[0083]

SERVICES OFFERED

QUALIFIED STRUCTURAL ENGINEER willing to assist architects, engineers, part time, in the preparation of reinforced concrete designs for all types of structures. Box 1731.

[4832]

SURVEY of land or buildings, also drawings, specifications, quantities, final accounts, estimates prepared for new, existing or conversion work. LIV 1839.

[0200]

FOR SALE

ALL HARDWOOD MOULDINGS, plain and embossed, embossed ornaments and dowels. Send for catalogue and today's lowest prices.—Davey's Moulding Mills Ltd., 60 Pownall Road, Dalston, E.8. Clissold 1543/4.

[0142]

E. N. MASON 32in Horizontal Continuous Photo Copier for sale. Suitable for making copies from linen tracings. Two 10 amp arc lamps, motor driven for 230 volts, 1 phase, 50 cycles. F. J. Edwards Limited, 359 Euston Road, N.W.1 or 41 Water Street, Birmingham, 3.

[4810]

JOINTLESS, COMPOSITION FLOORING in attractive colour range—quotations free. Full particulars from the Lotex Asbestos Flooring Co. Ltd., 3 Corbetts Passage, London, S.E.15, (Dept. A), Bermondsey 4341-2-3.

[0622]

REINFORCING RODS, 60 tons of Isteeg, jin by 40ft lengths. Cheap for quick sale.—J. Thomas & Co., 54 Harbour Road, Swansea.

[0202]

INSURANCE

ARCHITECTS' Indemnity Insurance effected.—Please write for Proposal Form to E. J. Saxby, Incorporated Insurance Broker, 37a Carfax, Hordsham, Sussex. Tel. 3000.

[4644]

BUILDINGS FOR SALE

SECOND-HAND Sectional Timber Buildings, completely reconditioned, delivered free 100 miles. 24ft by 12ft £102; 30ft by 15ft £138; 30ft by 18ft £154; 40ft by 20ft £302. Floors extra. Universal Supplies, Crabtree Manorway, Belvedere, Kent. Erith 2948.

[0082]

MISCELLANEOUS

STEEL AND WOVEN TAPES

REPAIRED at moderate cost with prompt dispatch. Send a broken tape for trial. Large stocks of new Chesterman Steel and Woven Tapes in all patterns and lengths. Quotations per return. Quantity discounts. A. W. Phillips & Son (Upton Park) Ltd., 47-51 Plashet Grove, London, E.6.

[4689]

CRANES FOR HIRE

CRANE HIRE SPECIALISTS

LOWER BRISTOL ROAD, BATH

Consult

G. W. SPARROW & SONS LTD.

with all your lifting problems.

Lifts up to 50 ton : Jib extensions to 170ft

COUNTRY WIDE SERVICE

Phones : Bath 78158-78450

[0201]

EDUCATIONAL

GUARANTEED EXAMINATION COACHING

for R.I.B.A., R.I.Ch. Surveyors, I.Qty. Surveyors, I.Mun.E., I.Struct.E., etc. First-class instruction courses in all aspects of Architecture, Building, Draughtsmanship, Surveying, Civil, Municipal, Structural and Sanitary Engineering. Write for free prospectus: International Correspondence Schools, 71 Kingway, Dept. 518, London, W.C.2.

[0167]

PRIVATE DRIVES AND ROADS

PRIVATE Drives, Forecourts, Estate Roads, etc., resurfaced or reconstructed by Specialists. Tarmacadam or Tarspraying. Estimates Free. Stanley Lucas (Slough) Ltd., Alexandra Road, Slough 21279.

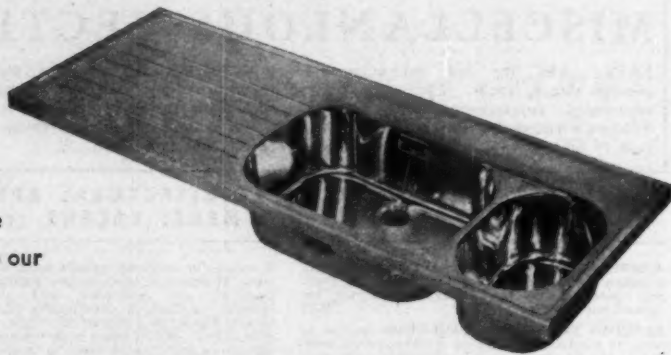
[0136]

PLAND

REG. TRADE MARK

make a stainless steel sink
for every kitchen

The illustration shows a RCS type unit. This type of unit has the advantage of a double bowl but with a comparatively small length, making it ideal for the smaller kitchen and a welcome newcomer to our extensive range of "Pland" sinks.



Send for illustrated leaflets and price lists to:

THE STAINLESS STEEL SINK CO. LTD.

Ring Road, Lower Wortley, Leeds, 12

INDEX TO ADVERTISERS

Official Notices, Tenders, Auctions, Legal and Miscellaneous Appointments on pages 50 and 51

Adamsez Ltd.	46	English Joinery Manufacturers' Association, The.	46	Key Engineering Co. Ltd.	14/15	Sadd, John, & Sons Ltd.	45
Adshad Ratcliffe & Co. Ltd. ...	49	Etchells, Congdon & Muir Ltd. ...	8	Kings Langley Engineering Co. Ltd.	36	Sandlime Brick Manufacturers' Association Ltd.	35
Allied Guilds	41	Falk, Stadelmann & Co. Ltd. ...	6/7	Laconite Ltd.	47	Secomastic Ltd.	41
Allied Ironfounders Ltd.	33	Farmer, S. W., & Sons Ltd.	28	Latex Upholstery Ltd.	44	Stainless Steel Sink Co. Ltd., The	52
Associated Metal Works (Glasgow) Ltd.	41	Finch, B., & Co. Ltd.	20	Lewis, F. J., Ltd.	39	Standard Maclean Ltd.	24
Atlas Asbestos Cement Co. Ltd. ...	17	Flexaire Ltd.	3	Liquitile Supply Co. Ltd.	42	Steel Radiators Ltd.	30
Austin, James, & Sons (Dewsbury) Ltd.	22	Glamorock Ltd.	26/27	Mander Bros. Ltd.	34	Stelcon (Industrial Floors) Ltd. ...	44
Batley, Ernest, Ltd.	48	General Electric Co. Ltd.	1, 19	Mander & Germain Ltd.	46	Steven, A. & P., Ltd.	39
Brierley, S. J. (Wilts), Ltd.	41	Goodlass Wall & Co. Ltd.	23	Maxwell, Andrew	47	Stonhard Co. Ltd.	36
Briggs, Wm., & Sons Ltd.	25	Gray, J. W., & Son Ltd.	41	McCarthy, M., & Sons Ltd.	39	Sugg, Wm., & Co. Ltd.	44
British Lead Mills Ltd.	2	Hammond & Champness Ltd. ...	IBC	Mullen & Lumsden Ltd.	39	Taylor, J. (Syston), Ltd.	41
Broughton Moor Green Slate Quarries Ltd., The	38	Harris & Bailey Ltd.	41	Natural Asphalte Mineowners & Manufacturers' Council.	32	Terradura Flooring Co. Ltd.	48
Cellon Ltd.	18	Hermesac Acoustics Ltd.	21	Noelite Ltd.	46	Thermocontrol Inst. Co. Ltd. ...	43
Clement Bros., Haslemere, Ltd. ...	42	Hills, F., & Sons Ltd.	10	Northarc Organisation Ltd., The	48	Thornborough & Son (Manchester) Ltd.	42
Cox & Co. (Watford) Ltd.	29	Hope, Henry, & Sons Ltd.	31	North British Plastics Ltd.	4	Tomo Trading Co. Ltd.	5
Crane Ltd.	11	Hotchkiss Engineers Ltd.	39	Prodorite Ltd.	16	Tretol Ltd.	9
Dale Electric Contractors (B'ham) Ltd.	41	Ideal Casements (Reading) Ltd. ...	13	P. & R. Electrical (London) Ltd. ...	12	U.A.M. Plastics Ltd.	37
Danaura Ltd.	39	Iliffe & Sons Ltd.	48	Pullen, F. A., & Co. Ltd.	45	Vulcanite Ltd.	28
Dunlop and Ranken Ltd.	IFC	Kerner-Greenwood & Co. Ltd. ...	39	Richardson & Starling Ltd.	41	Williams, John, & Sons (Cardiff) Ltd.	OBC
						Zinc Development Association ...	49

FIRST FOLD HERE

**ARCHITECT & BUILDING NEWS
READERS' INFORMATION SERVICE**

Catalogues and further information relating to manufacturers' products mentioned in the editorial columns or advertised in this issue will be forwarded if you fill in the sheet overleaf, fold, and post this prepaid form.

Postage
will be
paid by
Licensee

FOLD HERE

No postage
Stamp
necessary
if posted in
Great Britain
or
Northern Ireland

BUSINESS REPLY FOLDER
Licence No. SE 591

ILIFFE & SONS LTD.,
THE ARCHITECT & BUILDING NEWS
Readers' Information Service,
DORSET HOUSE,
STAMFORD STREET,
LONDON, S.E.1

FOLD HERE

TUCK IN THIS END

ARCHITECT & BUILDING NEWS READERS' INFORMATION SERVICE

Issue dated 4 February 1959

EDITORIAL REFERENCES

New Products and Information Digest items when published in the editorial columns are consecutively numbered. Please mark those numbers where you would like to receive further information and catalogues. For information on other editorial content enter your inquiry in the space provided.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

Other Editorial content:

ADVERTISED PRODUCTS

Below is an alphabetical list of advertisers in this issue. Please indicate those on which you would like to receive catalogues or further information by a line through the page number.

Adamsez Ltd.	46	English Joinery Manufacturers' Association, The.	46	Key Engineering Co. Ltd.	14/15	Sadd, John, & Sons Ltd.	45
Adshedd Ratcliffe & Co. Ltd. ...	49	Etchells, Congdon & Muir Ltd. ...	8	Kings Langley Engineering Co. Ltd.	36	Sandlime Brick Manufacturers' Association Ltd.	35
Allied Guilds	41	Falk, Stadelmann & Co. Ltd. ...	6/7	Laconite Ltd.	47	Secomastic Ltd.	41
Allied Ironfounders Ltd.	33	Farmer, S. W., & Sons Ltd.	28	Latex Upholstery Ltd.	44	Stainless Steel Sink Co. Ltd., The	52
Associated Metal Works (Glasgow) Ltd.	41	Finch, B., & Co. Ltd.	20	Lewis, F. J., Ltd.	39	Standard Maclean Ltd.	24
Atlas Asbestos Cement Co. Ltd. ...	17	Flexaire Ltd.	3	Liquitile Supply Co. Ltd.	42	Steel Radiators Ltd.	30
Austin, James, & Sons (Dewsbury) Ltd.	22	Glamorock Ltd.	26/27	Mander Bros. Ltd.	34	Stelcon (Industrial Floors) Ltd. ...	44
Batley, Ernest, Ltd.	48	General Electric Co. Ltd.	1, 19	Mander & Germain Ltd.	46	Steven, A. & P., Ltd.	39
Brierley, S. J. (Wilts), Ltd.	41	Goodlass Wall & Co. Ltd.	23	Maxwell, Andrew	47	Stonhard Co. Ltd.	36
Briggs, Wm., & Sons Ltd.	25	Gray, J. W., & Son Ltd.	41	McCarthy, M., & Sons Ltd.	39	Sugg, Wm., & Co. Ltd.	44
British Lead Mills Ltd.	2	Hammond & Champness Ltd. ...	IBC	Mullen & Lumsden Ltd.	39	Taylor, J. (Syston), Ltd.	41
Broughton Moor Green Slate Quarries Ltd., The.	38	Harris & Bailey Ltd.	41	Natural Asphalt Mineowners & Manufacturers' Council.	32	Terradura Flooring Co. Ltd.	48
Cellon Ltd.	18	Hermesac Acoustics Ltd.	21	Noelite Ltd.	46	Thermocontrol Inst. Co. Ltd. ...	43
Clement Bros., Haslemere, Ltd. ...	42	Hills, F., & Sons Ltd.	10	Northarc Organisation Ltd., The	48	Thornborough & Son (Manchester) Ltd.	42
Cox & Co. (Watford) Ltd.	29	Hope, Henry, & Sons Ltd.	31	North British Plastics Ltd.	4	Tomo Trading Co. Ltd.	5
Crane Ltd.	11	Hotchkiss Engineers Ltd.	39	Prodorite Ltd.	16	Tretol Ltd.	9
Dale Electric Contractors (B'ham) Ltd.	41	Ideal Casements (Reading) Ltd. ...	13	P. & R. Electrical (London) Ltd. ...	12	U.A.M. Plastics Ltd.	37
Danaura Ltd.	39	Iliffe & Sons Ltd.	48	Pullen, F. A., & Co. Ltd.	45	Vulcanite Ltd.	28
Dunlop and Ranken Ltd.	IFC	Kerner-Greenwood & Co. Ltd. ...	39	Richardson & Starling Ltd.	41	Williams, John, & Sons (Cardiff) Ltd.	OBC
						Zinc Development Association. ...	49

PLEASE WRITE IN BLOCK LETTERS

NAME _____

OCCUPATION _____

ADDRESS _____

**ELECTRIC
PASSENGER
& GOODS**

LIFTS



HAMMOND & CHAMPNESS LIMITED



HAMMOND & CHAMPNESS LTD.,

Institute of Marine Engineers, 56/59 Fenchurch Street, London, E.C.3.

Three eight-person gearless passenger lifts
travelling 16 floors at 500 ft. per minute.
Collective-triplex control, power operated doors.

Architects: Messrs. Ronald Ward & Partners.

GNOME HOUSE, BLACKHORSE LANE, LONDON, E.17. Tel: LARKSWOOD 1071
Branches in Glasgow, Birmingham, Liverpool, Plymouth, Belfast, Jersey.

JONWINDOWS

METAL WINDOWS

Advertised on Television

T.W.W.

(Television Wales and the West)

CHANNEL 10

Although John Williams do not normally sell their windows direct to the public, they yet felt that this exciting new medium—television—could give valuable support to architects and builders by fostering a climate of opinion favourable to the use of metal windows, and Jonwindows in particular. As the first metal windows to be advertised on TV, Jonwindows are likely to win a large increase of public acceptance.



Just look at the light they let in



STILLS
FROM THE
TV SPOTS

So easy to clean—outside and in



*No draughts—
even on a night like this*



JOHN WILLIAMS & SONS (CARDIFF) LTD

EAST MOORS ROAD

CARDIFF

